

ORP Project Managers Meeting
January 24, 2012
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

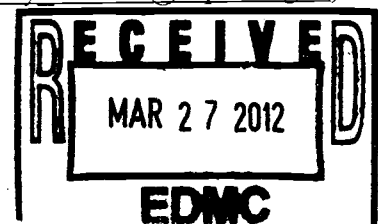
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Distribution:

W. Abdul	ORP	H6-60
S. L. Charboneau	ORP	H6-60
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L. A. Huffman	ORP	H6-60
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C. J. Kemp	ORP	H6-60
D.P. Knight	ORP	H6-60
R. W. Lober	ORP	H6-60
J. J. Lynch	ORP	H6-60
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D. L. Noyes	ORP	H6-60
G. B. Olsen	ORP	H6-60
R. W. Russell	ORP	H6-60
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W. J. Taylor	ORP	H6-60
G. D. Trenchard	ORP	H6-60
J. S. Trent	ORP	H6-60
J.D. Young	ORP	H6-60
D. Becker	Ecology	H0-57
R.K. Biyani	Ecology	H0-57
A.S. Carlson	Ecology	H0-57
T.Z. Gao	Ecology	H0-57
J. J. Lyon	Ecology	H0-57
J. D. McDonald	Ecology	H0-57
J. Price	Ecology	H0-57
H.M. Bowers	WRPS	H6-14
J.W. Donnelly	WRPS	H3-26
J. J. Luke	WRPS	H6-14
S. E. Killoy	WRPS	H6-14
R. J. Skwarek	WRPS	H3-28
R. A. Kaldor	MSA	H7-28
R. E. Piippo	MSA	H7-28

ADMINISTRATIVE RECORD – Heather Childers: H6-08

Please send comments on distribution list to Woody Russell (Woody_Russell@orp.doe.gov).



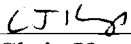
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The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.



Bob Lober, DOE-ORP

Date: 3-27-12




Chris Kemp, DOE-ORP

Date: 3-27-12



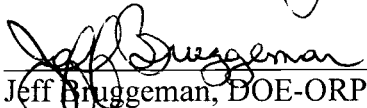
Wahed Abdul, DOE-ORP

Date: 3/27/12



Jason Young, DOE-ORP

Date: 3/27/12



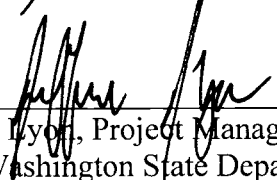
Jeff Bruggeman, DOE-ORP

Date: 3/27/12



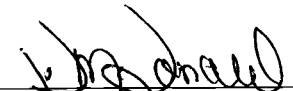
Gary Olsen, DOE-ORP

Date: 3/27/12



J. Lyon, Project Manager,
Washington State Department of Ecology

Date: 3/27/12



J. D. McDonald, Project Manager,
Washington State Department of Ecology

Date: 3-27-12

Purpose: ORP Project Managers Meeting

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1.0 Administrative Items

- Previous meeting minutes approval: The October 25, 2011 Project Managers Meeting (PMM) minutes were approved.

- Recent Items Entered/To be Entered into the TPA Administrative Record

(See list on today's agenda)

- Ecology initiated discussion on a 10-year cleanup priority list that was received yesterday. ORP responded that there have been several discussions regarding consideration of various scenarios in an effort to obtain the maximum amount of work with the available budget. ORP indicated that it had not seen the list. ORP will inquire internally to gain context behind the list and provide an update at the funding meeting scheduled this Thursday (1/26/12).

2.0 Review of the ORP Project Summary

Tank Farms

Tri-Party Agreement and Consent Decree (TPA and CD) Milestone Status - ORP noted that a change package was signed yesterday by Ecology and ORP to move the target date to FY 13 for the two TPA target milestones (change package No. M-45-12-01 for milestones M-045-91F-T01 and M-045-91G-T03). ORP reported that FY13 milestone M-045-92L for the barrier 1 construction complete is to be missed. Ecology asked about formal notification that the milestone will be missed. ORP responded that the documentation in the January 2012 TPA project summary report distributed today and in the meeting minutes from today will provide the formal notification to Ecology and initiate the process for a change package. ORP added that a letter will not be sent to Ecology regarding the to-be-missed milestone (see SST M-045-92L below).

ORP noted that all of the CD milestones are on schedule. Ecology asked if the assumption can be made that there is no potential or contingency for missing any of the milestones that are reported as on schedule, given the funding uncertainties. ORP responded that once the present budget and work scope is lined out, any potential impacts to future TPA milestones will be evaluated. At that time, ORP would follow the TPA process (Article 148/149) to make any baseline changes.

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Ecology initiated a discussion about the semi-annual report that ORP will be submitting to Ecology and the state of Oregon at the end of this month in accordance with the CD milestone (D-00C-01D). Ecology asked if directives given to the contractors regarding CD milestones will be included in the semi-annual report, noting that earlier requests had been made for inclusion of directives in the semi-annual report. ORP responded that the directives are included in the semi-annual report. Ecology noted that there is a section in the CD regarding requirements for Ecology when requesting information, and the purpose of raising the discussion was to ensure that the request was being made in accordance with the CD requirements. ORP responded that there is a section in the CD that describes what information goes into the semi-annual report, and there is a specific section (pg 8 section C.1.e) that states: copies of written directives given by DOE to the contractors for work required by this decree, if requested by Ecology. ORP noted that it has been stated today that Ecology has made the request for directives during the prior two PMMs and today's PMM, and the written directives will have to be included in the semi-annual report because of that request. An action was established that Ecology requested copies of written directives given by DOE to WRPS for work required by the CD.

Single-Shell Tank Corrective Action: M-45, -50, -60:

M-045-60 - Ecology stated that a review has been completed of the draft modification to the work plan and sampling analysis plan (SAP) for Waste Management Area C (WMA-C). Ecology has prepared a draft response to ORP stating that Ecology agrees with the proposed changes, that ORP will be submitting the validated FY11 data to Ecology sometime during the summer, and with that, Ecology would like a revision of the work plan. Ecology requested a summary report on the technetium-99 re-evaluation, the latest groundwater trending for WMA-C wells, discussion on the evaluation of the organic detections in WMA groundwater wells, and a summary of the QA/QC with respect to the samples that were transferred to WSCF during the 222-S shutdown. Following Ecology's review of the above-mentioned request for information, a meeting will be scheduled with ORP to make the final work plan details. ORP stated that it will follow up with Ecology on the specifics outlined today. Ecology added that there have been discussions in meetings with ORP on the specifics.

M-045-56 - ORP stated that it had been previously reported that funding constraints could potentially impact FY12 work scope, specifically the additional characterization work in U and TX to support future barriers and some leak loss assessments. The leak loss assessments were completed and sent to the tank integrity group. The characterization work is not currently being

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funded based on the interim baseline change request (BCR). Ecology will be notified if the characterization work is not included in the BCR changes that will be made since the final Congressional appropriation information has been received.

M-045-92B - ORP stated that a change notice is being drafted with the technical basis for a revision to the monitoring plan frequency for TY.

M-045-92L - ORP noted that this milestone is associated with the SX barrier south, and the October 2012 deliverable will be missed. A change package will be prepared for transmittal to Ecology.

TPA-SST Retrieval and Closure Program:

M-045-101 - An agreement was reached between ORP and Ecology for an extension to March 15, 2012 for Ecology's review of ORP's comment resolution and ORP's revision of the report on catch tank and pipelines.

M-045-80 - ORP requested an extension to March 15, 2012 to review Ecology's comments on the WIR process description document (radioactive waste determination process plan). Ecology agreed to the extension.

M-045-81 - ORP requested an extension to March 15, 2012 to incorporate comment resolution into the pipeline removal feasibility study. Ecology agreed to the extension.

M-045-86, Submit Retrieval Data Report to Ecology for 19 Tanks Retrieved - ORP noted that this milestone is on schedule. ORP referred to issue No. 1 on the agreements, issues and actions list, which is being addressed in meetings with Ecology to reach agreement on the content/format of CD tank completion certification. Progress is being made during meetings, and Ecology's table that was proposed two weeks ago will be reviewed during this week's scheduled meeting. Ecology noted that there have been internal discussions regarding a second and third technology for C-108, and Ecology requested a meeting with ORP to discuss the second technology. An action was taken for ORP to schedule a meeting with Ecology on January 30, 2012 to discuss C-108 second technology.

Tank in Appendix H. Status - ORP reported there was no change in status.

Tank Retrievals with Individual Milestones - ORP reported no change in status.

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C-Farm Critical Path - The slips in schedule for C-101 and C-102 design and system installation are due to upgrades to the electrical system design, which are now being incorporated. The duct work installation is under way in C-101 and C-102. The schedule slip for C-104 is due to analyzing the effects of the dissolution in C-108. The schedule for the C-105 phase 1 design has slipped due to engineering resources supporting the JCO freezing issues. The C-107 bulk retrieval operations delay is due to the JCO freezing issues and failure of the AN-106 supernatant pump. Ecology asked about the schedule for the replacement startup of the AN-106 pump. ORP stated that preparations are being made to install a new supernatant pump by the end of February 2012, as planned. The C-108 hard heel retrieval (HHR) has slipped due to the slower than anticipated water dissolution rates. The C-109 slips due to the JCO freezing issues have been resolved.

C-110 has been moved to FY13, due to funding constraints. A BCR for C-110 is planned for submittal, with no impact to FY14. Ecology noted that work is being moved due to funding constraints, and asked if the funding profile is known at this point. ORP responded that the funding profile has been received for FY12, but another issue is whether the funding will be received on time. Ecology asked if there will be enough money to do the C-110 work in FY13. ORP responded that the work will have to be done in FY13 to meet the 2014 milestone due date. A discussion ensued regarding work pushed out to FY13 and how it would be funded. ORP explained that different budget scenarios are being worked as part of the outyear planning, and the CD milestones have top priority. Ecology referred to the CD semi-annual report and the budget/cost status information to be included in the report. There was some discussion about the level of budget information that would be provided in the report. ORP stated that after the BCR for C-110 is submitted and approved, the information on the C-110 schedule slip will be included in the semi-annual report.

The slip in schedule for C-111 sampling for HHR was due to the testing of the Ramen spectrometer installation. There were issues with a bent riser, and a new fiberoptic line is on order to allow moving the Ramen to a 12-inch riser for testing. ORP noted that the fiberoptic line has to be special ordered because it is not a standard fiberoptic line. The schedule slip for C-112 is due to the JCO freezing issues. There is limited sluicing capability in C-112 with the sluicer in place due to hydraulic leaks in the enhanced/extended reach sluicing system (ERSS), but it is sluicing. The design slips for C Farm infrastructure DST receiver tanks are due to a change in the

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pump design. WRPS will replace the transfer pump at AN-101, and also replace the hose-in-hose transfer line to AN-106.

CD-SST Retrieval and Closure:

D-00B-01A - ORP noted that this milestone is being addressed in meetings with Ecology (see issue No. 1 on agreements, issues and actions list).

Significant Past Accomplishments - ORP reported that C-106 HHR is in the process of completing the second 40,000 gallon water dissolution, which should be pumped out today, and then 9,200 gallons of sodium hydroxide will be put into the tank to complete the water dissolution process. When the dissolution rates and data from C-108 are received, the information will be used to amend the C-108 process control plan. ORP noted a correction should be made to accomplishment No. 3 to read AN-106 pump replacement, not AN-103. Retrieval in C-112 is under way.

Significant Planned Activities in the Next Six Months - ORP noted that the major project in C-105 will be the dome cut, similar to what was done in C-107 a year ago.

CD-Tank Waste Retrieval Work Plan (TWRWP) Status - ORP stated that the C-101 TWRWP is in Ecology review, and at Ecology's request, ORP is assisting with revisions to the TWRWP. Ecology indicated that the TWRWP is close to being completed. ORP is planning to submit the TWRWP to Ecology as a primary document.

242-A Evaporator Status - ORP stated that the baseline and initial planning still reflects a campaign scheduled for summer 2012; however, there is a possibility the campaign will slip to the spring of 2013. That will provide an opportunity to implement a revision to DOE Order 425 for startup/restart, and allow time to update the evaporator documented safety analysis (DSA) so that restart can be done under the revised rules. In the previous version of 425, if a nuclear facility was not run for a year, an operational readiness assessment (ORR) was required. The revision to 425 allows for a contractor readiness assessment (RA) with DOE-RL oversight. ORP noted that the contractor has not made a decision whether to do an ORR or an RA. ORP stated that maintenance work on the evaporator is being completed under the American Recovery and Reinvestment Act (ARRA), which allowed for additional maintenance to be done.

M-045-91, SST Integrity Assurance:

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ORP noted that a change package has been submitted for the two milestones t (M-045-91F-T01 and M-045-91G-T03). ORP stated that the report associated with milestone M-045-91G-T06 will be transmitted to Ecology within the next two months. ORP noted that there is a requirement in the 91G-T06 milestone that ORP and Ecology hold discussions whether any more tanks need visual inspection, and a meeting will be scheduled after Ecology reviews the report to discuss the need to do any more tanks. ORP stated that the report associated with 91F-T03 will be transmitted to Ecology within the same time frame as the report for 91G-T06. Ecology noted the language for the status of 91F-T03 as on schedule pending final appropriations. ORP responded that the milestone is on schedule, and the language should be removed from the status of that milestone. There was a brief discussion regarding the status of the remaining milestones that are on schedule pending final appropriations. ORP noted that there is precursor work that was planned in FY12 that is being pushed out, and some of the milestones are dependent on that work being completed in order to meet their due date. Ecology and ORP agreed that the issue is already covered under the established agreement, No. 6 on the agreements, issues and actions list. Ecology asked for clarification that ORP will review the work being carried forward to FY13 under the SST integrity milestones and then provide an update to Ecology. ORP concurred that it will provide an update.

In Tank Characterization and Summary:

Ecology inquired about the revision of the strategic planning data quality objective (DQO). It was also noted that the date for both of the DQOs listed is April 2011, and probably should be April 2012. ORP took an action to provide Ecology a copy of the RPP-44057 DQO and a description of the revision. Ecology will be notified when the DQOs for C-104 and C-109 are held. ORP will clarify whether the date for the two DQOs is April 2011 or 2012.

Tank Operations Contract (TOC) Overview - ORP reported that the overall TOC cost and schedule performance is going well. Base operations are performing well and there are no issues to report. There were some cost and schedule issues with retrievals, due to the JCO freezing issue and the AN-106 pump failure. Waste feed delivery schedule variances were due to a delay in the mixer pump procurement, and an early completion grab sample on C-107. Ecology requested information regarding the mixer pump, i.e., which tank and the status of the test. ORP stated there were no issues to report on the schedule performance for supplemental treatment. The cost variance was due to the self-performing technology development baseline studies, reducing the subcontractor costs.

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Acquisition of New Facilities; M-90-00; M-47-00:

ORP reported that conceptual design (CD-1) activities for the Interim Hanford Storage and Secondary Liquid Waste Treatment continue to progress. The CD-1 will be submitted to Ecology for review by September 30, 2012. ORP stated that a briefing was provided to Ecology on the alternative analysis for the Secondary Liquid Waste Treatment Project that was conducted in December 2011, and on the system engineering and value engineering sessions on the Interim Hanford Storage.

Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45:

ORP stated that all the milestones are on schedule. ORP reported that the Supplemental Pretreatment project is on hold. ORP received the critical decision 1 package from the contractor. ORP conducted a review of the package and comments were generated, but the comments have not been transmitted to the contractor because there is no funding in 2012 for comment resolution. The Defense Nuclear Facilities Safety Board (DNFSB) has also reviewed the critical decision 1 deliverables from the contractor, and conducted a review of ORP's comments against the deliverables. The DNFSB provided several questions, but a response to those questions is on hold. The Supplemental Pretreatment project is associated with the DST tank system, and the critical decision 1 package proposed using an in-tank process as opposed to building a new facility to prepare low activity waste feed to start up the Waste Treatment Plant (WTP) Low Activity Waste (LAW) facility. ORP noted that the Supplemental Pretreatment project has been considered for several years, but it has not been included in the baseline funding. The scope of the Supplemental Pretreatment project is to support an earlier start of LAW before the rest of the WTP is ready.

System Plan - ORP stated that there were no changes to report since the last PMM. A System Plan 6 addendum is still under consideration to start in April 2012, ending by November 2013. SP7 would then start up in November 2013, and be completed in May 2015 to meet the TPA milestone. Ecology expressed interest in resuming meetings with ORP to discuss the system plan progress. ORP took an action to set up a meeting with Ecology to discuss the system plan progress.

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Waste Treatment Plant

Ecology discussed a 10-year cleanup priority list that was received yesterday. ORP responded that it had not seen the list. Ecology expressed concern about the list, since tank farms and WTP project managers have not seen the list, and there had been no discussion or agreement at the project management level on the list,

ORP stated that what is being reported today is consistent with the baseline and the approved modified funding profile. FY12 funding was reduced from 840 million to 740 million dollars, and there will be some impacts. None of the impacts jeopardize the CD goals and objectives from the WTP project perspective, with the recognition that ORP is looking beyond the FY12 impacts to potential impacts in the out years. ORP is waiting for DOE-HQ to provide the outyear planning numbers and feedback directions so that ORP can begin its rebaselining efforts. Due to the impacts in FY12, ORP is in the process of implementing baseline changes to adjust the work scope to fit into the 740 million funding that was received. ORP noted that the year-to-year carryover funding is relatively small.

ORP reported that the field and project work is ongoing in a positive and productive manner. The total project is running about 1.0 for cost and schedule. There was a reduction of about 140 construction crafts as part of the rebaselining effort. The majority of the impacts from the funding shortfall will be focused on the Pretreatment facility (see discussion under Pretreatment). The objectives are to stabilize the work force to the greatest extent possible and minimize the transitions in the work force.

Low Activity Waste Facility (LAW)

ORP reported that the third melter procurement has been delayed. The procurement will be awarded, but ORP is not moving as aggressively as first planned. Otherwise, the project is proceeding as planned. The carbon bed has been staged at the 48-foot level and will be assembled in the next few months.

Analytical Laboratory (LAB)

ORP stated that during the last reporting period the schedule performance index (SPI) was at 1.17, which was mainly due to some construction activities. The cost performance index (CPI) was at .96. ORP reported that the LAB is about 50 percent complete overall, with a reminder that the

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bulk of percent complete for LAB will be methodology development that occurs post construction. Ecology asked if ORP is developing a description or an inventory list that bounds and constrains what substantially complete means. ORP responded that it is very clearly defined in the TPA and associated milestones, and ORP is working with Bechtel to ensure that line items are identified that are associated with the TPA and milestone parameters. Ecology asked about a time frame for discussing the results of its meetings with Bechtel. ORP responded that as agreed to previously with Ecology, status updates will be provided when new information is available.

Ecology referred to the modifications to the HVAC system to account for additional heat loads not originally anticipated, and asked where the heat loads are coming from. ORP responded that the heat loads were due to equipment that wasn't originally going to be in the facility. The equipment is associated with some of the control systems. Also, there were some taps within the system that were either missing or not properly installed. The taps are needed connections when the load balancing is done on the HVAC system as it is brought online. A thorough inspection is being done to identify every area where the taps are missing. The overall load capability on the HVAC system is being evaluated to determine whether any adjustments are needed.

Ecology inquired about the tank mixing and sampling demonstration plan. ORP noted that the demonstration plan work is outside of LAB, but the efforts are to determine what the waste acceptance criteria will be for LAB as it receives incoming feed. Ecology asked if the vessel completion team is involved with the plan. ORP responded that the vessel completion team will be doing the testing and determine what kind of sampling is needed.

Balance of Facilities (BOF)

ORP reported that the emergency turbine generator (ETG) will not be impacted by the budget cuts, although the building will be pushed out. Engineering and nuclear safety efforts are ongoing to ensure qualification of the ETG equipment. Ecology asked if the specifications for the ETG have been completed. ORP responded that the spec work for meeting the criteria is still ongoing. The equipment suppliers do not supply to the nuclear industry, and there is a substantial amount of work required to put an NQA-1 type of process in place, which will be done via commercial grade dedication (CGD). Ecology asked if ORP anticipates any major issues with the CGD/NQA-1 verification. ORP responded that the CGD process presents a substantial technical challenge, and the contractor has an experienced engineering team that has started early on the process. ORP has not used very many turbine generators in this application, so the process will be new ground to

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demonstrate to all the stakeholders that the engineering design meets all the safety requirements. Ecology asked if ORP will seek a proof of concept. ORP responded that the concept is not the concern, but the challenge will be obtaining the qualification and getting it into the mainstream for the industry.

Ecology asked about the possibility of installing a natural gas pipeline to the site and using that as a backup to the ETGs. ORP responded that an environmental impact statement (EIS) is planned for a natural gas pipeline to the site. ORP's position is that when and if there is a natural gas pipeline available onsite, the decision may be made during the operations phase to use it as a backup for the ETGs. The commitment to the CD for the steam plant has to be met and can't be placed at risk waiting for an EIS decision on a natural gas pipeline.

Ecology asked about any DNFSB concerns or comments following its onsite review. ORP responded that the outbriefing was very positive. ORP stated that there were comments and discussion, and there was a lot of confidence displayed in the DNFSB team. ORP cautioned that the DNFSB functions as oversight and not a regulator, and their opinion should not sway Ecology's opinion in one direction or another. Ecology noted that the DNFSB's main concern is safety, and ORP agreed that one of their main charters is safety. Ecology inquired about the current concern on the impacts of high energy sources, as stated in today's handout. ORP responded since BOF is more complete, a review of all the hazard analyses is being done to ensure all the potential hazard sources are captured, such as the potential impacts from the failure of a piece equipment on other associated equipment. ORP noted that this is not the first time a hazard analysis has been done, and this is a reconfirmation effort. Ecology noted that the handout refers to an air storage tank, and that the ammonia tanks should be mentioned as a hazard source. ORP acknowledged that the ammonia tanks is one of the hazard sources, but the air tanks is an energy source, which was the focus of the hazard analysis. ORP stated that the bigger picture is the maturation of the nuclear safety and licensing aspects of BOF, and looking at the hazard analysis in an integrated manner.

Pretreatment (PT) Facility

ORP reported that the funding shortfall for FY12 has had the most impact to PT, and replanning the work scope is under way. Receipt of the baseline change proposal (BCP) is expected this week, and following a review, the BCP will be finalized within a few weeks. Ecology asked why PT is most impacted. ORP responded that PT has the most procurement and outstanding

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construction work, and it is the only facility that can be slowed down in terms of the outstanding work activities in FY12. BOF and LAB monthly expenditures are small, which leaves the High Level Waste Facility (HLW) and PT. HLW is much further along with procurements and receipt of equipment. Another angle to consider is that PT has more technical issues to resolve before moving forward with construction. The focus in PT will be technical issue resolution (DNFSB 2010-2) and engineering production.

Currently construction has been significantly reduced and some elements of procurement have been reduced. Vessel modification will be delayed, since it is not critical path, but vessel fabrication is proceeding as planned. Ecology asked if the testing will continue for PT. ORP stated that all the testing will continue, and all the main high priority testing and engineering safety analysis work will not be impacted. Ecology requested updates on what is being excluded and included in PT. ORP stated that once the BCP has been reviewed, a meeting will be scheduled with Ecology to provide a briefing. ORP noted that the briefing will only be for FY12 impacts. Ecology referred to the initiatives in 2010-2, and asked for a meeting to discuss a schedule of events for implementing 2010-2. ORP agreed to hold a discussion with Ecology. Ecology asked if everything contained in 2010-2 will be carried forward, and ORP concurred.

Ecology asked if testing reports are planned or scheduled. ORP responded that there are several deliverables in 2010-2, and all the testing information will be reported as required. ORP noted that a deliverable is due the first week in February 2012 to provide a report on the Newtonian/non-Newtonian fluid testing. Ecology asked if it could be copied on distribution for the 2010-2 deliverables. ORP responded that there will be quarterly reports and a briefing provided to Ecology, and it will work on ways to keep Ecology engaged in the process. It was noted that there is a technical briefing on vessel completion scheduled tomorrow with Ecology.

ORP reported that the test results on the Newtonian/non-Newtonian fluid testing do not directly show that the Newtonian fluid model bounds the non-Newtonian fluids. The test results have not been published by Bechtel yet and are being reviewed by an external team. ORP stated that when the report is issued, the intent is to accept the results and move forward with the information from the testing. Part of the vessel completion team is evaluating all the options for moving forward. ORP is ensuring that a complete evaluation of the data is done, and that the initial interpretation of the results is accurate. ORP does not intend to replicate the testing that was done.

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ORP reported that the results so far on the aerosol testing for the process vessel vent (PVV) have been very promising. Testing is being done to determine the entrainment factor for the PVV, and is being conducted with low density, medium density, and high density simulants. There was discussion regarding the elements of the testing, which are much more conservative than what is expected during operation (i.e. tiny holes in the air sparger). ORP explained that the testing is not to demonstrate the design, but to obtain more accurate information about how much waste material simulant is picked up when air is blown through the waste and that gets entrained into the air and then goes through the ventilation system to a filter. ORP added that it's a conservative attempt to obtain data that models the physical parameter, but not necessarily from an actual vessel configuration. After further discussion, ORP stated that 42 tests are planned with 11 different simulants using different temperatures and different densities. The testing was supposed to be completed this month, but now is heading into the March 2012 time frame. The test results are important for use in completing the design of the PVV system and if design changes need to be made. Ecology expressed satisfaction with the information that more testing is planned and that no more discussion was needed today.

ORP reported that Bechtel has submitted a draft report on its initial evaluation of the margin calculations for two vessels (RLD-8 and CMP-4), and ORP is reviewing the report. Bechtel's conclusion is that the two vessels will work for the material selection. Ecology recollected that part of the issue was not having the appropriate documentation to prove the material selection was correct, and asked if there will be background information provided to corroborate the margin calculations. ORP responded that the report is very detailed and provides results on various scenarios using different temperatures and specific sets of waste, etc. ORP indicated that its review of Bechtel's draft report will be done in about two weeks, and after that a briefing will be given to Ecology. ORP stated that the draft comment resolution will continue into March 2012, and resolution of the issue will probably be in the summer time frame of 2012.

ORP reported that vessel fabrication is going well, including vessels 27-A/B, 28 and UFP-2A/B. Vessel 27-A/B is complete. These are non-Newtonian vessels that have the cluster pulse jet mixer (PJM), and the middle of the cluster is to be filled with concrete. The vessel completion team has put a hold on proceeding with the concrete fill because of a question/issue with the control of the PJM overblow. The issue is expected to be resolved within a week, with a path forward to either a modification recommendation or to continue with the concrete fill. There are some fabrication issues with vessels UFP-1/1B. There are 18 Hastelloy castings to be done on

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cones for the PJM nozzles. The castings are very complex and could take several months and will be challenging from a schedule perspective. Following successful completion of the verification and validation (V&V) of the quantitative risk analysis (QRA) for hydrogen in piping and ancillary vessels (HPAV), Bechtel is moving forward with the production of the QRA for different routes of the piping. The V&V was conducted by an independent review team, and ORP believes that all of the technical issues have been resolved.

The eight-foot vessel is planned for large scale testing during the March 2012 time frame, and it will take about two months. The testing is to validate the computational fluid dynamics (CFD) model, which would be the basis for verification of all of the vessels. Following that test, the eight-foot vessel will be used for PJM performance testing.

ORP responded to a question that Ecology had sent earlier regarding pipe hangers in PT that are not coated. Bechtel has reviewed the requirement, which states that all of the hangers have to be coated. However, if the hangers are located in the area above the as-low-as-reasonably achievable (ALARA) zone, the hangers do not need to be coated in the section where they are grinded for welding. Ecology referred to a picture that showed two hangers that look like they're not coated and have rusted, and stated that it poses the question of whether the hangers have rusted so much that the integrity for design life in the plant has been compromised. ORP has challenged Bechtel to verify the basis for the coating requirement and whether the requirement has flaws. Bechtel will also inspect the plant to determine areas of rust on the hangers and provide an explanation. ORP's engineering team will be reviewing Bechtel's response, and then ORP will provide feedback to Ecology in terms of the evaluation and conclusions and a path forward.

High Level Waste

ORP reported that the annex has been weathered in, which allows work inside the building. All of the piping has been installed in planning area 6. ORP stated that resequencing the buildout of the filter cave has bought about 100 days of schedule. The rebar walls will be built on the ground and then placed via crane in the filter cave. The slab above the filter cave will be built after the walls are in place. The resequencing moves the filter cave from the critical path to third or fourth critical path. The critical path is now the melter cave buildout No. 2. Delivery of the high efficiency mist eliminators (HEMEs) that go in vessels in the melter caves is expected by January 2013. There is about 35 days of float in terms of receipt of the submerged bed scrubbers that go in each of the melter caves and towards completion of installation being on the critical path. There

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is the capability to take the submerged bed scrubbers through the doors of the melter cave, but that is a more costly option.

ORP reported on the suspension of work regarding alignment of preliminary documented safety analysis (PDSA) with design and fabrication. In areas where it's been determined that there is a difference between the PDSA and either the design, fabrication or construction of a component, a suspension of work is issued to ensure the PDSA and the design are aligned. The PDSA for the HEME reflects that the internals of the HEME are important to safety from an operational perspective in the event of a seismic event or design basis event. Bechtel has been purchasing these as non-Q items, meaning they are not important to safety. The internals for the HEME have been suspended until the entrainment testing for PT is completed. If the entrainment values from the testing can be used to prove the internals are not important to safety, then the issue would be resolved. The results from the entrainment testing are expected by March 2012. ORP stated that the installation won't take place until the PDSA is aligned with the design.

Ecology stated that it has been tasked to review the carbon bed adsorbers (CBA), and during the review a question was asked about whether the CBAs need to maintain integrity after a seismic event. The answer was given that the CBA does not need to maintain integrity because everything will be captured in the HEMEs and the submerged bed scrubbers. A discussion ensued regarding the answer Ecology received during its review, and an action was taken to follow up on the specific question and answer. Ecology requested a briefing on how the systems will work during a seismic event.

Ecology inquired about the issue with the stress corrosion in the decon tanks (HDH-02/04 vessel) due to the chlorine. Ecology noted that a hold was placed on installation until a technical justification was received about why the tanks are not subject to stress corrosion and cracking or pitting corrosion. Ecology also noted that there is a stress corrosion allowance inside the tank, but no corrosion allowance for the coils, and a response has not been received to the comment about why there is no allowance for the coils. ORP requested that Ecology forward the e-mails and took an action to follow up on the decon tank corrosion issue. Ecology asked about the status of ORP's audit on Bechtel's process for determining corrosion allowances. ORP responded that a review of Bechtel's response is under way.

Ecology asked if there were any major DNFSB issues with HLW. ORP responded that most of the emphasis on DNFSB issues is focused towards PT. HLW is tied to the PT issue regarding the

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entrainment coefficient testing, but it is not an issue that was raised by the DNFSB on HLW. ORP noted that HLW has four vessels that are PJM mixed, but it is not believed those vessels pose the extent of the vessel mixing issue in PT. ORP stated that a decision has been made to not set two of the vessels until their safety and operational capability are verified (RLD-7 and RLD-8). A matrix is being developed for all of the requirements for the vessels, and the vessel completion team is working through those issues.

Ecology noted that the project summary report usually has no significant issues listed, and asked what the criteria is for determining a significant issue and putting it on the issues list. ORP acknowledged that there are a number of technical issues and challenges with the project, and the criteria for reporting an issue is if there is an impact to a critical path or to meeting CD or TPA milestones. ORP added that the current issues and challenges to the project are captured during discussion of the significant accomplishments and planned actions. ORP stated that the current challenge is the funding uncertainty for FY13 and beyond. Ecology noted the DNFSB concerns regarding the technical issue on the vessel mixing are serious concerns. ORP responded that the issues with mixing and corrosion/erosion are concerns that ORP had already raised and has been tracking. ORP added that it takes the DNFSB concerns as a stakeholder very seriously, but ORP is not addressing mixing or corrosion/erosion concerns at the DNFSB's direction, and ORP is addressing the concerns because it believes they are serious issues and should be addressed.

Ecology asked about the 100 million dollar reduction in the budget and its effect on PT. ORP responded that it does affect PT's schedule, but it is not impacting any CD commitments for FY12. However, if the funding reduction continues beyond FY12, it is uncertain whether the PT commitments can be met. ORP stated that until the budget profile and planning for the out years are received, a response cannot be given about future impacts. ORP noted that the project can't take another cut in funding in multiple years at the peak of construction and maintain the schedule.

3.0 Agreements, Issues, Actions

The agreements, issues and actions list was updated and will be sent out later today. (See attached agreements, issues and actions list).

4.0 Key Documents List

A revised key documents list was provided today.

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5.0 Upcoming Meetings

- Dry run for the February 2012 ORP quarterly meeting is scheduled Tuesday, February 14, 2012.
- The February ORP quarterly meeting is scheduled for Thursday, February 16, 2012.

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Attachment A: Agreements, Issues and Actions

(2 pages including this cover sheet)

ORP/Ecology TPA and CD Agreements, Issues, and Actions

Updates for January 2012

Agreements:

1. Resolution of M-045-101 is extended to 01/31/2012 to crosswalk with the permit.
2. M-045-80 (Items 2, 3, and 4) – Ecology and ORP agree to extend submittal and response to Ecology comments to 01/31/2012. **Update 01/17/12:** M-045-80 (Items 2, 3, and 4) comment response has been completed and submitted to Ecology via letters 11-TPD-084, 11-TPD-085, and 11-TF-151 (Reissue). M-045-80 Item 1 (Description of Radioactive Waste Determination Process) comment response is still on-going.
3. M-045-81 – Ecology and ORP agree to extend submittal and response to Ecology to 01/31/2012 contingent on disposition of RCRs.
4. Quick turnaround results from vadoze zone data will be discussed in C-101 TWRWP (linked to Action 9).
5. Tentative agreement between ORP and Ecology for approval of Waste Management Area C Closure Demonstration Project Plan, Revision 3, pending Ecology Senior Management approval.
6. ORP will meet with Ecology to discuss work priorities if/when funding appropriations are received to discuss work priorities, tentative for end of January/early February.

Issues:

1. Agreement on content/format of CD Tank Completion Certification is needed. Meetings have been held on 12/12/2011, 12/19/2011, and 01/09/2012. The next meeting is scheduled for 01/26/2012.

Actions:

1. ORP will submit change notice for M-045-92B specific to monitoring plan, scope, and schedule for TY Barrier. Actionee: Bob Lober. **Open. 12/07/2011 meeting discussed this action (minutes signed for TPA AR). Anticipated date for change notice submittal is mid-January.**
2. Brief Ecology on Sample Analysis/Validate C-101 and C-104 post May 2012. Actionee: Bob Lober. **Open.**
3. Continue meetings on RFI nature and extent sections/CMS between ORP and Ecology. Actionee: Bob Lober. **Open.**
4. Ecology provide a date to submit comments on WIR Process Description for M-045-80 Item 1. Actionee: Jeff Lyon. **Closed. RCR provided on 12/05/2011 via Ecology Letter 11-NWP-146, tentative ORP response to RCR is 01/31/2011.**
5. Ecology will review ORP's response to Ecology's (Lyon) questions on Baseline clarification [Handout given by Jeff Lyon]. Actionee: Jeff Lyon. **Open.**
6. ORP will provide Ecology the red-flag tank numbers for SST and DST system from initial report on plutonium particle size issue. Actionee: Chris Kemp. **Closed. Provided via email on 12/21/2011.**
7. ORP will send the Ramen Report to Ecology. Actionee: Chris Kemp. **Closed. Provided via email on 12/21/2011.**
8. ORP will prepare and work with Ecology to sign a change package for target dates M-045-91F-T01 and M-045-91G-T03. Actionee: Jeremy Johnson. **Open.**
9. ORP/WRPS will setup meeting to discuss the TWRWP Revision for C-101. Actionee: Jeff Luke. **On-going.** First meeting held 01/12/2012.

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Attachment B: List of Attendees

(3 pages including this coversheet)

Sign In Sheet
ORP TPA PMM Meeting
January 24, 2012

NAME	ORG	MSIN	PHONE
ROB PIPPO	MSA		373-3235
Kathy Knox	Knox Reporting		946-5535
Kathy Higgins	ORP		376-3658
Jeremy Johnson	ORP		376-1866
CLINT TRENCHARD	ORP		373-4016
Chris Kemp	ORP		373-0649
Bob Leber	ORP		373-7949
Stanley Simon	ODOE		(541) 963-0853
Steve Pfaff	ORP		376-2188
Dan McDonald	Ecy		372-7988
Jeff Lyon	Ecy		509-539-1946
Janet Diecker	ORP		(509) 438-0070
Steve Killoy	WRPS		205-8269
RICHARD GRUBB	ORP-WTP		376-5213
Nancy Ungerer	Ecology		372-7928
Jeff Luke	WRPS		376-8629
DaBrisha Smith	ORP		376-4306
Chris Harrington	ORP-WTP		376-1239
JAMES LYNCH	DOE-ORP		376-4170
DAN GLASER	WRPS		373-1127
Reed Kaldor	MSA		372-1992
Mike Barnes	Ecology		372-7427

Sign In Sheet
ORP TPA PMM Meeting
January 24, 2012

[illegible]

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Attachment C: Presentation Materials

**ORP TPA Project Summary and Handouts
(34 pages)**

And

**ORP Consent Decree Project Summary and Handouts
(22 pages)**

And

**Working ORP Key Documents List
(5 pages)**

And

(62 pages including this coversheet)

FINAL

Office of River Protection
Tri-Party Agreement
Project Summary Report
January 2012



Office of River Protection
Tri-Party Agreement Milestone Review
January 2012

Page	Topic	Leads
1	Administrative Items / Milestone Status	James Lynch / Dan McDonald / Jeff Lyon
2	Single-Shell Tank Corrective Action; M-45, -50, -60	Bob Lober / Jeff Lyon
4	Single-Shell Retrieval and Closure Program TPA Milestones Status; M-45-00 series, - Tank in Appendix H Status - Tank Retrievals with Individual Milestones	Chris Kemp / Jeff Lyon
7	C-Farm Critical Path	Kathy Higgins / Jeff Lyon
11	242-A Evaporator Status	Glyn Trenchard / Jeff Lyon
12	SST Integrity Assurance; M-45-91	Jeremy Johnson/ Michelle Hendrickson
14	In Tank Characterization and Summary	Jeremy Johnson / Michael Barnes
15	Tank Operations Contract (TOC) Overview	Dan Knight / Jeff Lyon
20	Acquisition of New Facilities; M-90-00; M-47-00	Janet Diediker / Jeff Lyon / Dan McDonald
21	Supplemental Treatment and Part B Permit Applications; M-62-00, -20, -30, -45	Steve Pfaff / Jeff Lyon / Dan McDonald
22	System Plan; M-62-40	Dabrisha Smith / Jeff Lyon / Dan McDonald
23	WTP Overall TPA and CD Summary and Milestones Status; M-62-01; M-62-49	Delmar Noyes / Dan McDonald
25	WTP Pretreatment (PT) Facility	Wahed Abdul / Dan McDonald
27	WTP High-Level Waste (HLW) Facility	Gary Olsen / Dan McDonald
28	WTP Low-Activity Waste (LAW) Facility	Jeff Bruggeman / Dan McDonald
30	WTP Analytical Laboratory (LAB)	Jason Young / Dan McDonald
31	WTP Balance of Facilities (BOF)	

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2012				
M-062-40B	Submit System Plan	10/31/2011	10/21/2011	Completed
M-062-49	Sub. Report to ECY Demonstrating WTP Design Meets Vit. Criteria	10/31/2011	10/27/2011	Completed
M-045-91B	DOE Submit a Sampling and Analysis Plan to Ecology	12/30/2011	9/20/2011	Completed
M-045-92F	Meet Yearly on Performance of Barrier	12/31/2011	11/30/2011	Completed
M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	1/31/2012		To Be Missed
M-045-91G-T02	Provide AOR Final Doc. for SSTs on 750,000 Gallon Tanks	1/31/2012	11/18/2011	Completed
M-062-01X	Submit Semi-Annual Project Compliance Report	1/31/2012		On Schedule
M-045-91D	Submit Analytical Test Plan for Cores Removed from C-107 Plug	3/31/2012	6/27/2011	Completed
M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05	3/31/2012		On Schedule
M-045-92M	Barrier 2 Design/Monitoring Approval From Ecology	6/30/2012	5/19/2011	Completed
M-047-06	Comp. Neg's of No More Than 2 Interim Milestones	6/30/2012		On Schedule
M-062-01Y	Submit Semi-Annual Project Compliance Report	7/31/2012		On Schedule
M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	9/30/2012		To Be Missed
Fiscal Year 2013				
M-045-92L	Barrier 1 Construction Complete	10/31/2012		To Be Missed
M-045-92G	Meet Yearly on Performance of Barrier	12/31/2012		On Schedule
M-090-11	Comp. Neg's No More Than 2 Canister Storage Fac. Const. Int. M/S	12/31/2012		On Schedule
M-062-01Z	Submit Semi-Annual Project Compliance Report	1/31/2013		On Schedule
M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	5/31/2013		On Schedule
M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	5/31/2013		On Schedule
M-045-92O	Barrier 3 Design/Monitoring Approval From Ecology	6/30/2013		On Schedule
M-045-91F-T02	Provide Report of Liner Failures for SSTs	7/31/2013		On Schedule
M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	7/31/2013		On Schedule
M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	9/30/2013		On Schedule

WBS 5.2 Retrieve and Close Single Shell Tanks

M-045-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan, Due: 12/31/08 Status: Complete. Master Work Plan is in the Primary document revision process. ORP transmitted its response to Ecology on August 18, 2010. Ecology extended review of comment responses to October 29, 2010. Ecology requested at the October PMM a two week extension from October 27, 2010. ORP acknowledged that Ecology's comment response will be considered in abeyance until DOE-ORP, Ecology, and EPA complete their negotiation of the AIP applicable to Appendix I. Ecology assumed that negotiations would be done December 24, 2010. They have been extended.

M-045-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C, Due: 12/31/08, Status: Complete. Continue field sampling with decommissioning of angle push under C203 underway. ORP and Ecology met for review of sampling results and draft workplan modifications and sampling optimization strategy on September 22, 2011. September meeting minutes, which document efforts, were signed 11/09/2011 by parties and were subsequently entered into the administrative record. A draft Workplan/SAP Modification and TPA Change Notice was formally submitted to Ecology on 1/05/2012 with a requested response by 2/10/2012.

M-045-56, Complete Implementation of Agreed to Interim Measures, Due: TBD, Status: On schedule. Annual DOE/Ecology meeting to discuss interim measures for 2011 was held on July 13, 2011, completing milestone M-045-56G. Meeting minutes have been signed by the parties and entered into the TPA administrative record. FY2012 funding budget authorization has been received, and constraints will impact FY2012 scheduled work. This possibility was noted in previous meeting minutes.

M-045-59, Control surface water infiltration pathways as needed to control or significantly reduce the likelihood of migration of subsurface contamination to groundwater at the SST WMAS (pending the CMS report, milestone M-45-58, and implementation of other interim corrective measures), Due: TBD, Status: On Schedule

M-045-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RFI/CMS Report for WMA C, Due: 12/31/14, Status: On Schedule

M-045-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Study Report for WMA C, Due: 06/30/2015, Status: On Schedule

M-045-92, DOE and Ecology will establish selection criteria for installation of additional interim barriers at additional WMAs (beyond the T-106 and TY barriers), Due: 9/30/2016, Status: On Schedule.

M-45-92B, DOE shall submit to Ecology for approval, a final design and monitoring plan for TY farm interim barrier, Due: 03/31/2010, Status: Complete. A revision will be made to

the monitoring plan and submitted to Ecology with a TPA Change Notice, based on current evaluation of data as documented in meeting minutes signed by the parties as part of M-045-92F.

M-045-92F, DOE and Ecology will meet yearly to review the monitoring data, agree to changes in monitoring (if needed) and assess the performance of the demonstration barrier, Due: 12/31/2011, Status: Complete. Meeting was held 11/30/11. Meeting notes have been prepared, signed on 12/19/11, and have been entered into the TPA Administrative Record.

M-045-92L, Construct Barrier 1 Due: 10/31/12, Status: To Be Missed. Change Package in preparation. See issues below.

Significant Past Accomplishments:

- Automated data collection system for T-Farm interim barrier monitoring continues gathering data.
- Automated data collection system for TY Interim Barrier monitoring continues gathering data.
- Analysis of barrier monitoring data collected to date has been performed and results are being documented.
- Completed direct push campaign near C-200 tanks in C Farm.
- Continued laboratory analysis of direct push soil samples previously obtained in C farm and other farms

Significant Planned Actions in the Next Six Months:

- Perform additional updates to WMA C RFI/CMS workplan and SAP based on requested changes from Ecology.
- Publish results of evaluation of barrier monitoring data, and recommend changes to future monitoring plan for TY barrier.
- Continue laboratory analysis of direct push soil samples previously obtained in C farm and other farms.

Issues:

- FY2012 funding constraints will impact FY2012 scheduled work. Final Congressional appropriation information has been received. Changes to the baseline are being prepared and will be followed by applicable TPA Change Packages.

SST Retrieval and Closure Program

M-045-101, Submit to Ecology as a primary document a report on all catch tanks and associated pipelines in the SST System Part A, Due: 12/27/10, Status: Complete. Transmitted from ORP to Ecology via letter 10-TPD-176 on 12/28/10. Comments were transmitted from Ecology to ORP on May 27, 2011, via letter 11-NWP-048. ORP requested an extension to the comment resolution period in to December 5, 2011. Resolutions have been identified for all comments and the RCRs and redline provided to Ecology on 11/14/2011. Document to be revised following review by Ecology.

M-045-80, Complete those portions of C-200 Closure Demonstration Plan, Due: 1/31/2011 Status: Complete. Four primary documents transmitted from ORP to Ecology via letter 10-TPD-166 on 12/28/10. Comments on three of the four documents were transmitted from Ecology to ORP on May 27, 2011, via letters 11-NWP-045, 11-NWP-047, and 11-NWP-051. ORP requested an extension, to December 5, 2011. Ecology requested additional time to review *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residual* via 11-NWP-049. ORP transmitted responses on the C-301 Catch Tank Retrieval Feasibility Study (RPP-RPT-45723) to Ecology on November 8, 2011, via 11-TDP-085. ORP transmitted responses on the 241-C Tank Removal Study (RPP-RPT-47167) on November 9, 2011, via 11-TPD-084. ORP received Ecology comments on the *Radioactive Waste Determination Process Plan for Waste Management Area C Tank Waste Residuals* on December 7, 2011 and is evaluating comments. ORP transmitted responses for *The Waste Management Area C RCRA/CERCLA Integration White Paper* (RPP-PLAN-46459) on January 17, 2012 via 11-TF-151.

M-045-81, Implement & complete all remaining activities in C-200 Closure Demonstration Plan and provide a report of the results of those activities, Due: 9/30/2014, Status: Complete. The first deliverable specified in the closure demonstration plan was formally transmitted from ORP to ECY via letter 10-TPD-166 on 12/28/10. Comments were transmitted from Ecology to ORP on June 1, 2011, via letter 11-NWP-052. ORP requested an extension, to December 5, 2011. Ecology and ORP met on 11/1, 11/14, and 11/17/2011 to resolve comments. ORP requested an extension to January 31, 2012 to incorporate comment resolutions.

M-045-82, Submit complete permit mod requests for Tiers 1, 2, & 3 of the SST, Due: 9/30/2015 Status: On Schedule

M-045-84, Complete negotiations of TPA interim MS for closure of second WMA, Due: 1/31/2017, Status: On Schedule

M-045-83, Complete the closure of WMA C, Due: 6/30/2019, Status: On Schedule

M-045-85, Complete negotiations of TPA interim MS for closure of remaining WMAs, Due: 1/31/2022, Status: On Schedule

M-045-70, Complete waste retrieval from all remaining SSTs, Due: 12/31/2040, Status: On Schedule

M-045-00, Complete Closure of all Single Shell Tank Farms, Due: 1/31/2043, Status: On Schedule

M-045-86, Submit retrieval data report to Ecology for 19 tanks retrieved, Due: TBD (12 months after retrieval certification), Status: On Schedule

Significant Past Accomplishments:

- See discussions above and related discussions in Consent Decree report.

Significant Planned Activities in the Next Six Months:

- See discussions above and related discussions in Consent Decree report.
- Work to discuss and resolve issues and comments associated with deliverables for M-45-101, 80, and 81.

Issues:

- USDOE is delaying the final numeric modeling supporting the WMA C performance assessment to align the timing with completion of the Tank Closure and Waste Management EIS. Impacts of this delay are being incorporated into the critical path schedules.

Tank in Appendix H. Status - Single Shell Waste Retrieval Criteria

Tank 241-C-106

Significant Past Accomplishments:

None

Significant Planned Activities in the Next Six Months:

- Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009. (It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.)

Issues:

None

Tank Retrievals with Individual Milestones

Tank 241-A-103

M-045-15, Completion of Tank A-103 SST Waste Retrieval, Due: 9/30/22 Status: On schedule. Change package M-45-11-04 switched tank S-102 to A-103 with a completion date of 09/30/2022 for M-045-15.

M-045-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I, Due: 9/30/22, Status: On schedule. Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

M-045-15D, Embedded Milestone, if appropriate, DOE will request an exception to waste retrieval criteria pursuant to Agreement Appendix H, Due: 9/30/22, Status: On Schedule. Updated with A-103 tank and due date of 9/30/22 per M-45-11-04 Change Package.

Significant Past Accomplishments:

- Change Package M-45-11-04 was signed by ORP and Ecology on 04/19/11.

Significant Planned Activities in the Next Six Months:

None

Issues:

None

Tank 241-S-112

M-045-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project, Due: TBD (in accordance with M-045-84 or M-045-85), Status: On Schedule

M-045-13E, Complete Negotiations for Interim Milestones for Closure of S-112, Due: TBD Status: On Schedule as part of M-045-84 or M-045-85.

Significant Past Accomplishments:





- Ecology letter of January 7, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

Significant Planned Activities in the Next Six Months:

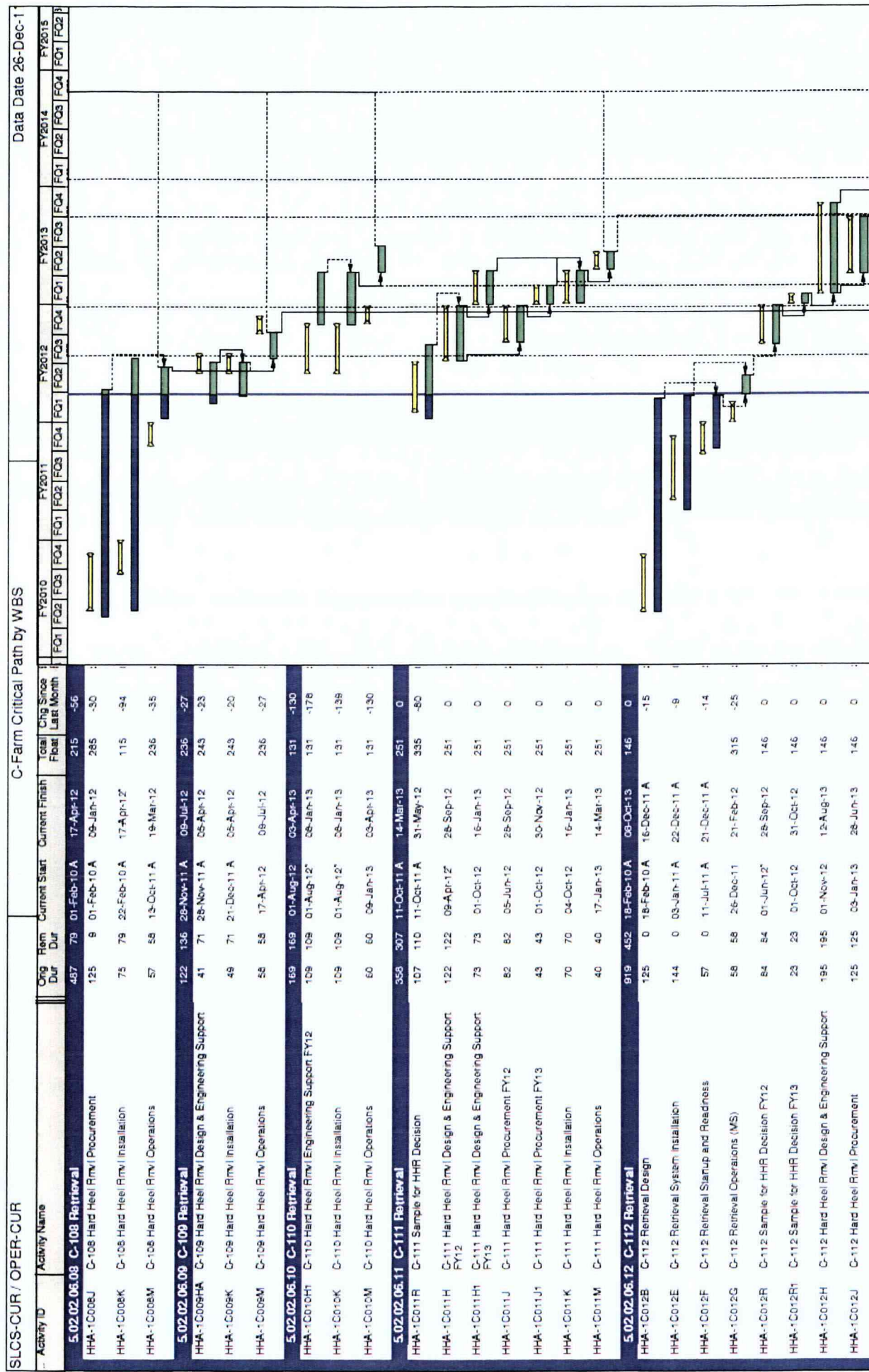
None

Issues:

None

C-Farm Retrieval Critical Path Current Schedule December 2011			Page 1 of 4	TASK filters: ! - C-Farm CP Exclude, C-Farm - Critical Path.
Actual Work		Critical Remain Work		Baseline Act
Remain Work		Milestone		Baseline Milestone

Project Manager TPA Review



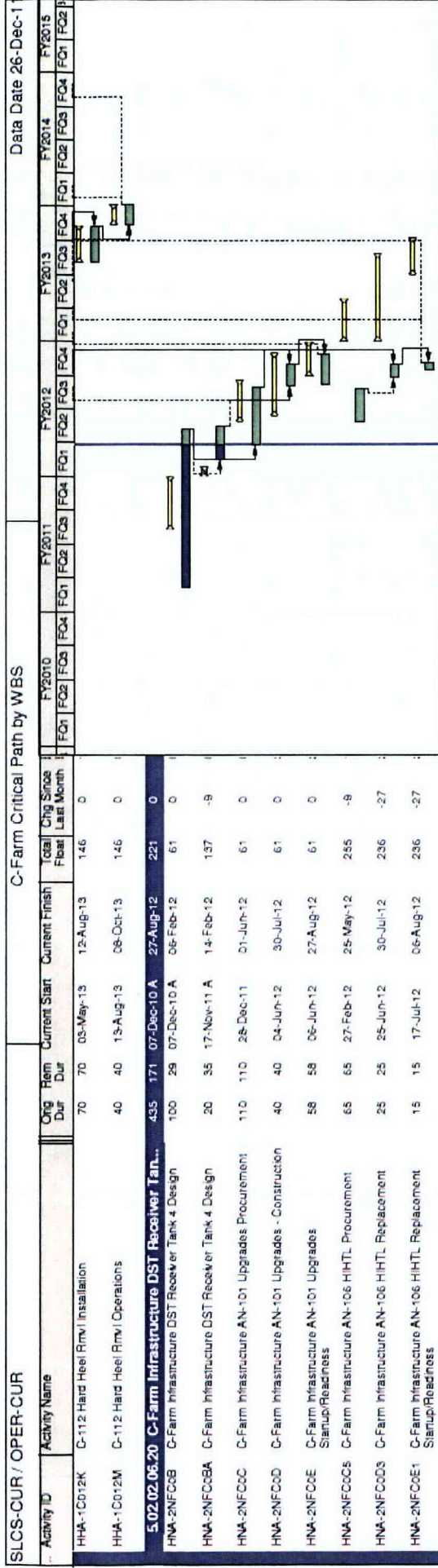
Actual Work Critical Remain Work Baseline Act

Remain Work Milestone

C-Farm Retrieval Critical Path
Current Schedule
December 2011

Page 3 of 4

TASK filters: ! - C-Farm CP
Exclude, C-Farm - Critical Path.



Actual Work

Remain Work

Critical Remain Work

Milestone

Baseline Act

Baseline Milestone

C-Farm Retrieval Critical Path

Current Schedule

December 2011

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TASK filters: ! - C-Farm CP
Exclude, C-Farm - Critical Path.

242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

242-A Campaign strategy:

No campaigns were conducted in FY2011 due to ongoing 242-A and Tank Farm Life Extension and ARRA funded facility upgrades. The 242-A Campaign Strategy for FY2010 through FY2015 depicted below has been updated based on ORP-11242, River Protection Project Plan, Revision 6, and ongoing schedule integration efforts.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY10	10-01	AW-106	AW-106	Campaigns 10-01/10-02 were performed back-to back starting in late August and completing in early October 2010. Campaign 10-02 was an acceleration of previously planned Campaign 11-01.
FY10	10-02	AW-106	AW-106	
FY11	NA	NA	NA	No campaign conducted in FY11 due to ongoing 242-A and Tank Farm facility life extension and ARRA funded upgrades.
FY12	12-01	AP-107	AP-107	Estimated start August 2012. May require two (2) passes to achieve waste volume reduction.
FY13	13-01	AP-104	AP-107	Estimated start March 2013.
FY13	13-02-	AW-106	AP-107	Estimated start September 2013.
FY14	14-01	AN-106 AZ-102 AW-106	AP-107	Estimated start March 2014. Two (2) passes required.
FY15	15-01	AY-101 AZ-102	AP-107	Estimated start March 2015. Three (3) passes required.
FY15	15-02	AY-101	AP-107	Estimated start August 2015. Four (4) passes required.

SST Integrity Assurance

M-045-91F-T01, Provide to Ecology as a HFFACO secondary document a report evaluating the applicability to Hanford SSTs of the liquid leak rate assessments of sludge and salt-cake from the Savannah River Site, Due: 1/31/2012, Status: To Be Missed. See issues. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was provided to Ecology on 1/11/2012.

M-045-91G-T02, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 750,000 gallon tanks (BY, S, TX and TY Farms), Due: 1/31/2012, Status: Complete 11/18/11. (ORP letter 11-TPD-091)

M-045-91D, Submit to Ecology an analytical test plan for the cores removed from the C-107 plug, Due: 3/31/2012, Status: Complete 06/27/11. (ORP letter 11-TPD-043)

M-045-91G-T06, Provide to Ecology a report documenting and evaluating the visual inspection of 12 SSTs per the criteria in M-045-91G-T05, Due: 3/31/2012, Status: On schedule.

M-045-91G-T03, Provide to Ecology the Structural Analyses of Record final documentation for SSTs for 1,000,000 gallon tanks (A, AX and SX Farms), Due: 9/30/2012, Status: To Be Missed. See issues. TPA change package M-45-12-01, moving M-45-91F-T01 and G-T03 out one year was provided to Ecology on 1/11/2012.

M-045-91D-T01, Provide Ecology a report containing the results and interpretation of testing, and analysis performed on the concrete dome samples obtained from the Tank C-107 plug, Due: 5/31/2013, Status: On schedule pending final appropriations.

M-045-91F-T03, Provide to Ecology, as a HFFACO secondary document a report assessing the feasibility of testing for ionic conductivity between the inside and outside of SSTs, Due: 5/31/2013, Status: On schedule pending final appropriations.

M-045-91F-T04, provide to Ecology, as a HFFACO secondary document, a report on the 100-series single-shell tanks which have been or will be identified as having leaked in RPP-32681, Rev 0, Due: 7/31/2013, Status: On schedule pending final appropriations.

M-045-91F-T02, Provide to Ecology as a HFFACO secondary document a report evaluating the common factors of liner failures for SSTs that have leaked and will provide recommendations as appropriate, such as enhanced Leak Detection, Monitoring, and Mitigation, Due: 7/31/2013, Status: On schedule pending final appropriations.

M-045-91E, Provide to Ecology a compilation of the Single-Shell Tank farms dome deflection surveys every two years, beginning 9/30/2013, Due: 9/30/2013, Status: On schedule pending final appropriations.

M-045-91G-T04, provide to Ecology the Structural Analyses of Record final documentation for SSTs for 55,000 gallon tanks (B, C, T and U Farms), Due: 10/31/2013, Status: On schedule pending final appropriations.

M-045-91F, Provide to Ecology a report (Summary Conclusions Report on Leak Integrity) summarizing and evaluating the information submitted under M-045-91F-T01 through - T04, Due: 12/31/2013, Status: On schedule pending final appropriations.

M-045-91G, Provide a Summary Conclusions Report of Structural Analysis of Record (AOR) for SSTs, Due: 4/30/2014, Status: On schedule pending final appropriations.

M-045-91B-T01, Provide Ecology a report containing the results and interpretation of testing. and analysis, performed on the concrete core obtained from Tank A- 106 or alternate tank, Due: 9/30/2014, Status: On schedule pending final appropriations.

M-045-91H, Submit a change package (if deemed necessary by DOE and Ecology) to establish additional milestones based on information obtained from the actions in the preceding M-045-91 series milestones to date, Due: 7/31/2015, Status: On schedule pending final appropriations.

M-045-91I, Provide to Ecology an IQRPE certification of SSTs structural integrity for the remainder of the mission, or for such time as the IQRPE believes he/she can reasonably certify, Due: 9/30/2018, Status: On schedule pending final appropriations.

Significant Past Accomplishments:

- SST Integrity Milestones and Target Dates Remaining Workscope Durations provided to Ecology on 12/20/2011. Change Package M-45-12-01 to move target dates M-045-91F-T01 and M-045-91G-T03 was provided to Ecology on 01/11/2012.

Significant Planned Actions in the Next Six Months:

- Approval and signature of Change Package M-45-12-01 to move target dates M-045-91F-T01 and M-045-91G-T03 out one year.
- Complete target M-045-91G-T06, provide report to Ecology documenting and evaluating the visual inspection of the 12 SSTs per criteria in M-045-91G-T05.
- Complete target M-045-91F-T03, provide Ecology the Ionic Conductivity Feasibility Report.
- Prepare and issue demonstration test report for the sidewall coring demonstration to support M-045-91B-T01.

Issues:

- FY2012 funding constraints will impact FY2012 scheduled work. Final Congressional appropriation information has been received. Changes to the baseline are being prepared and will be followed by applicable TPA Change Packages.

In Tank Characterization and Summary

For the period from December 1 – December 31, 2011:

Accomplishments:

- Collected the fifth set of liquid grab samples from tank C-108 to support the heel retrieval (the first four sets were taken in October and November).
- Completed RPP-PLAN-51289, *Tank 241-AN-101 Grab Sampling and Analysis Plan after the Completion of Tank 241-C-112 Sluicing*. The data will be used to evaluate corrosion chemistry during C-112 retrieval.
- Collected stack gas samples at the start of tank C-112 waste retrieval. The data will be used to evaluate emissions of Toxic Air Pollutants identified in RPP-PLAN-50993, *Sampling and Analysis Plan for Tank 241-C-112 Stack Chemical Emissions during Retrieval*.

Planned Action within the next Six Months:

- Tank Sampling
 - Continue to sample C-108 to support heel retrieval.
 - Tank AN-101 grab samples for corrosion chemistry control taken at 50% of the retrieval of tank C-112 scheduled for February 2012
 - Tank AN-101 grab samples for chemistry control after completion of C-112 sluicing scheduled for March 2012
 - Tank C-108 off- riser samples scheduled for April 2012
 - Tank 204-AR-TK-1 compatibility grab samples scheduled for February 2012
 - Tank AN-102 grab samples for chemistry control scheduled for March 2012
 - Tank C-104 grab samples to support heel retrieval scheduled for March 2012
 - Tank C-109 grab samples to support heel retrieval scheduled for March 2012
 - Tank SY-102 grab samples for chemistry control scheduled for May 2012
 - BBI Updates
 - Ten tanks have been identified for updates in FY12 Quarter1. The BBI updates will be issued in January 2012.
 - Data Quality Objectives (DQO)
 - Revision of the PCB Management DQO (RPP-7614) and the Compatibility DQO (HNF-SD-WM-DQO-001) in April 2011
 - Revision of the Strategic Planning DQO (RPP-44057) in April 2011
- Development of DQOs to support removal of hard heels in C-104 and C-109 in March 2012

Issues:

None

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

Project Performance

The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting. The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

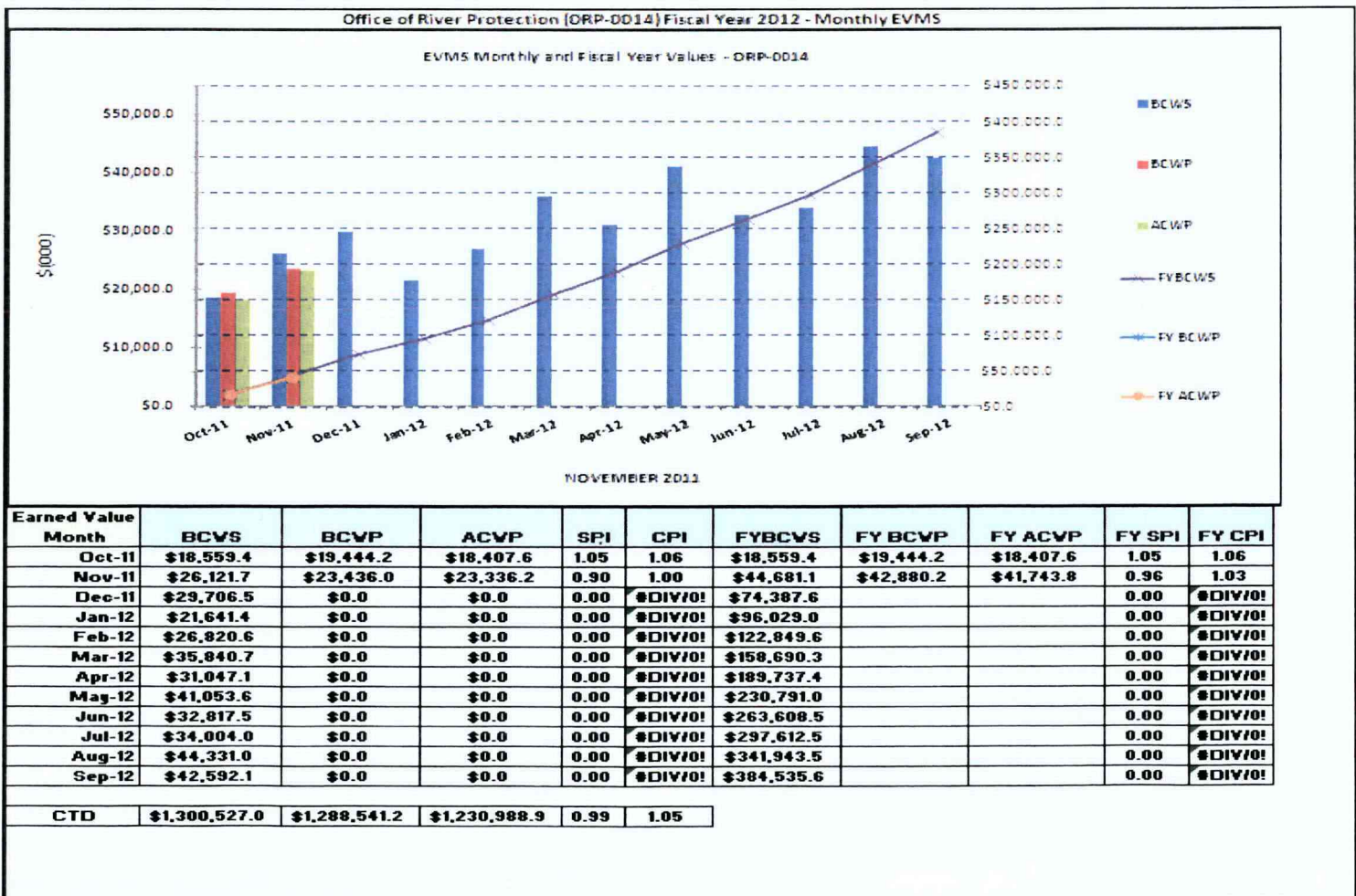
As of November 30, 2011, the TOC team has worked 2,383,303 hours (233 days) without a Lost Time Workday Injury or DART case and achieved 991,531 hours (105 days) since the last Recordable case. There were no Recordable cases in November 2011. The FY 2012 Total Recordable Case rate is 0.00, which is below the company goal of 0.87 and below the DOE, Office of Environmental Management goal of 1.50. See the following Total Recordable FY 2012 Cumulative Summary chart.

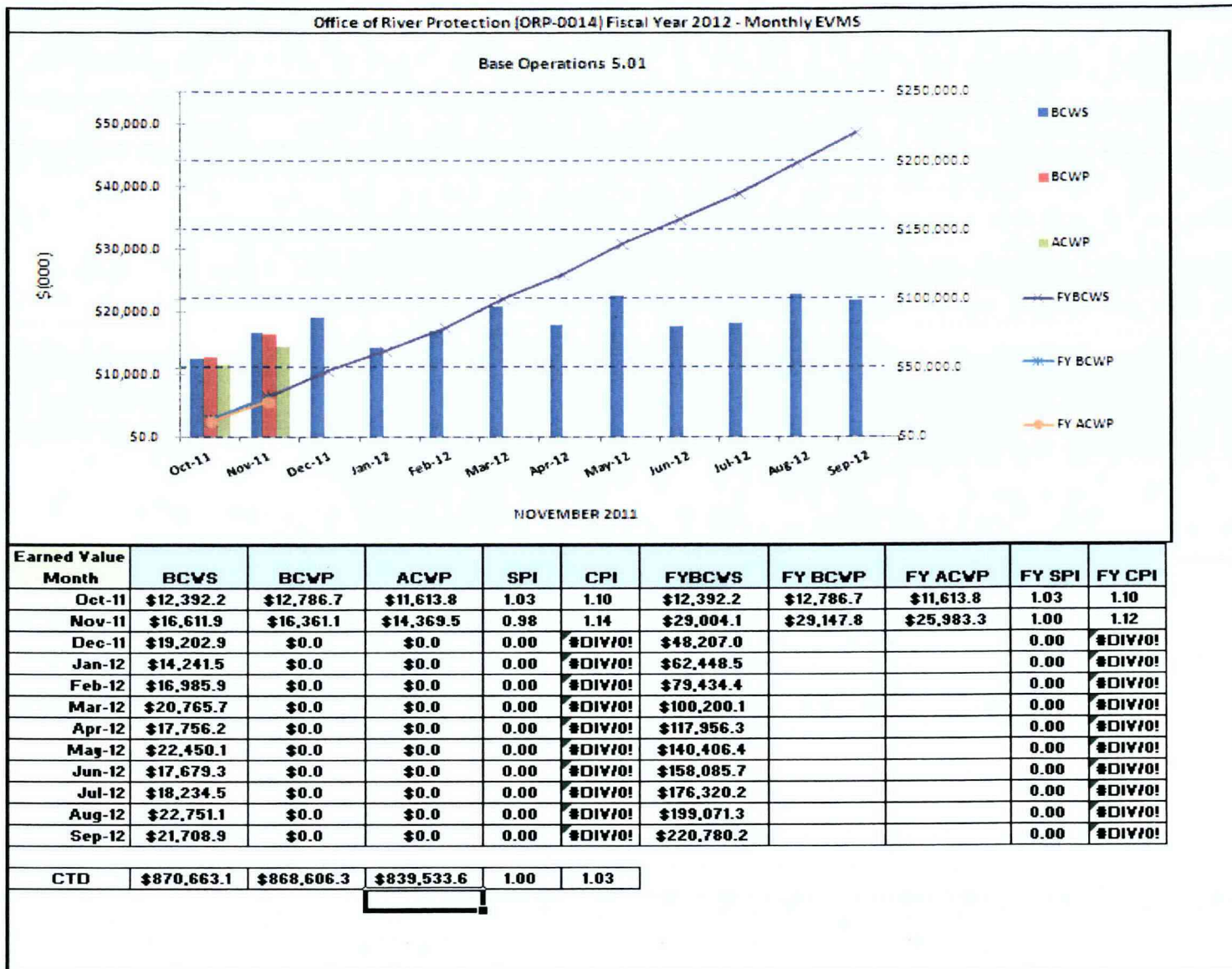
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC	EAC	VAC
CUM	26,121.7	23,436.0	23,336.2	(2,685.7)	899	0.90	1.00			
FYTD	44,681.1	42,880.2	41,743.8	(1,800.9)	1,136.4	0.96	1.03	184,154.8	167,811.6	16,343.2
CTD	1,269,848.6	1,161,930.0	1,104,874.0	(1,088.6)	17,016.0	0.99	1.05	2,140,095.8	2,062,074.3	78,021.5

Red shaded cells indicates a SPI/CPI less than 0.90

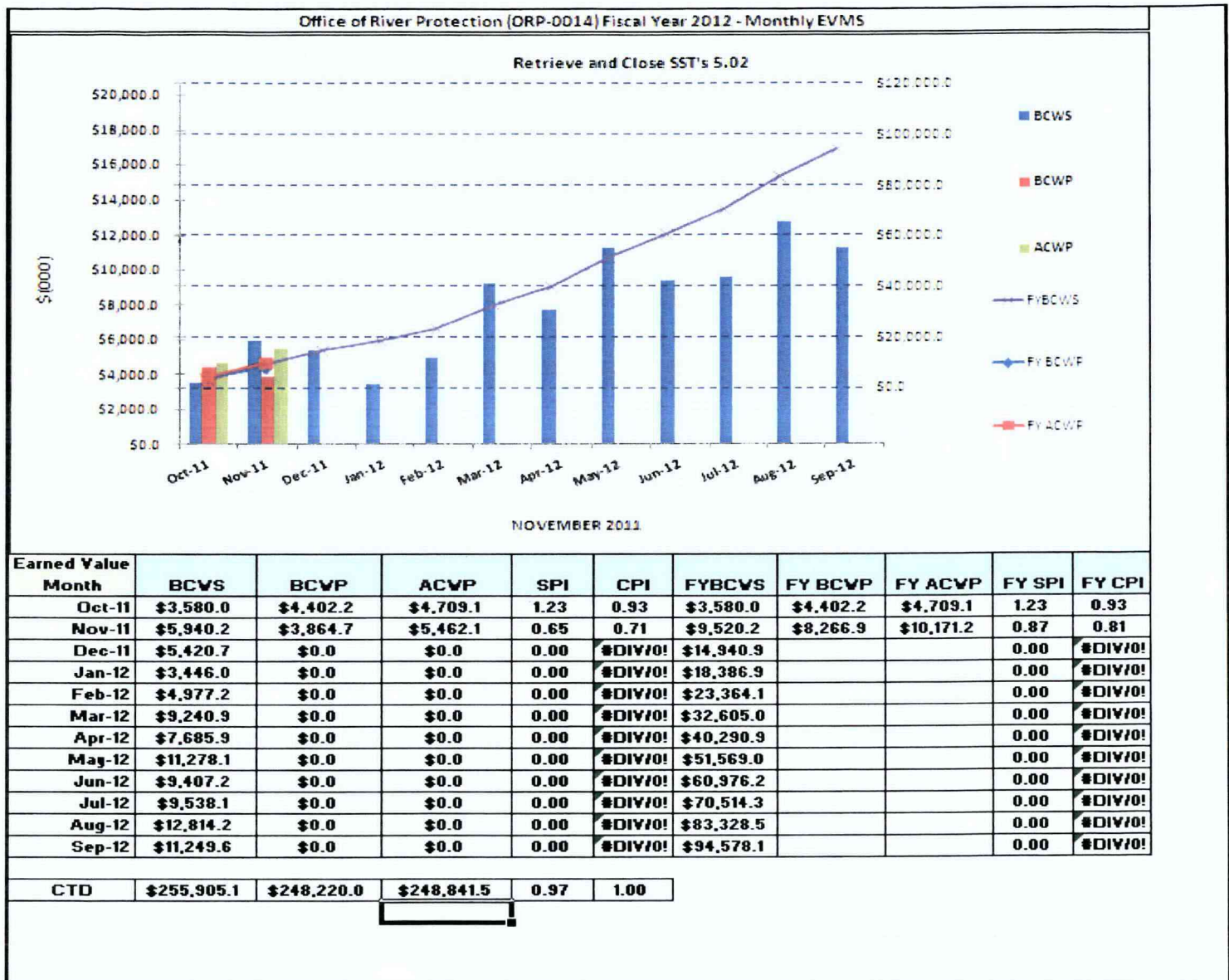
Green shaded cells indicate a SPI/CPI between 0.90 and 0.99

Blue shaded cells indicate a SPI/CPI greater than or equal to 1.0

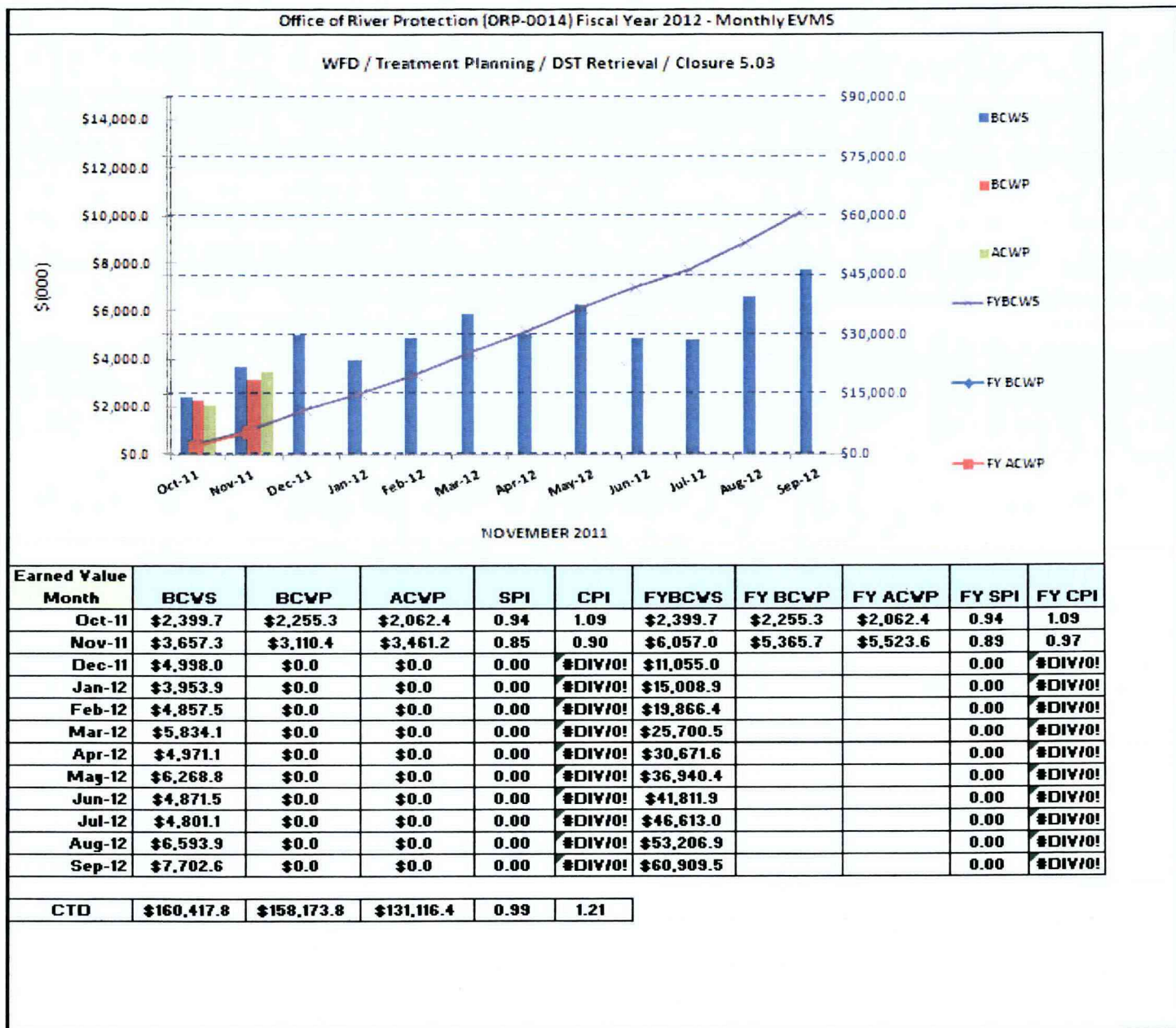




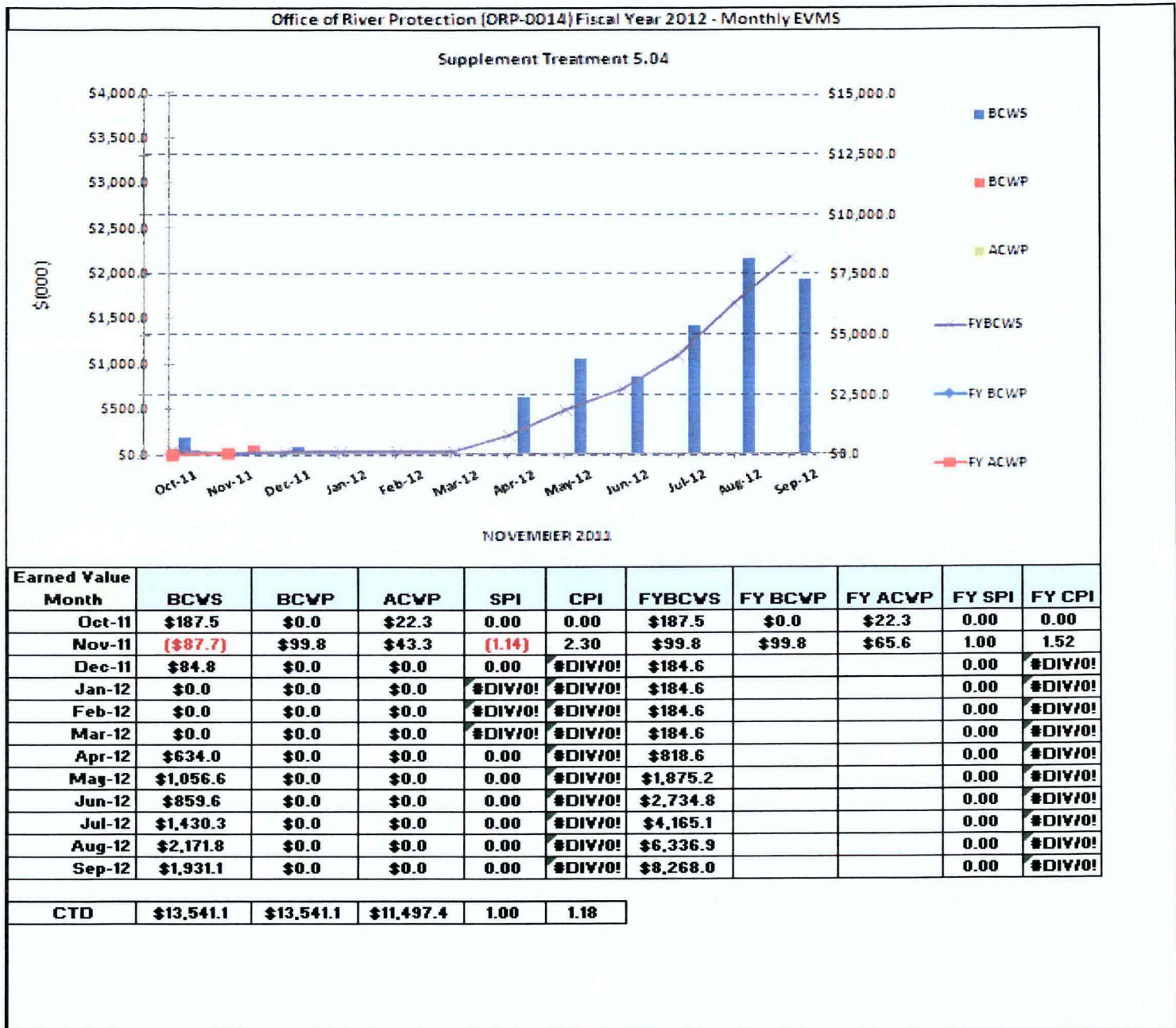
- **Base Operations Farms AW/AP (\$415k) CM (SV)** driven by two root causes:
 - Progress earned for completion of multiple noncomplex corrective maintenance work packages primarily associated with the AW Farm electrical outage (\$323k),
 - Completion of multiple preventive maintenance work packages on equipment due to the proximity of instruments.
- **Base Operations Farms A/AX/AY/AZ (\$307k) CM (SV)** driven by two root causes:
 - AZ Farm preventive and corrective maintenance resource constraints due to training and qualification of bargaining unit personnel after the workforce restructuring bump and role
 - Labor resources reassigned to support higher priority workscope.



- C-112 Retrieval, (\$727k) CM (SV)** Retrieval operations did not start for the second scheduled month due to continued emphasis on completion of construction punch list items and startup/readiness (\$1123k).
 - Readiness has been hampered by the JCO for potential failure of waste transfer systems due to freezing and solids participation/deposition. This issue is expected to be resolved in December and retrieval operations started. The unfavorable variance for operations was partially offset by schedule recovery on startup/readiness (\$359k)
- C-107 Retrieval (\$1859k) CM (SV)** Retrieval operations were prevented due to issues with the AN-106 receiver tank supernate pump. Attempts to restart the pump with the aid of water flushes and a new motor starter have been unsuccessful, and replacement of the pump will be required.
- C-102 Retrieval (\$327k) CM (CV)** ahead of schedule on retrieval system installation work packages, foam removal, and riser inspections (\$247k), and design/engineering/procurement (\$80k).



- **Mixer Pump Procurement (\$263k) CM (SV)** The mixer pump procurement, planned in October, has still pending evaluation of corrosion erosion test results (additional testing may be required and is being discussed).
- **Tank Waste Sampling (\$210k) CM (SV)** driven by two root causes:
 - Early completion of a grab sample to support SST C-107 retrieval (\$121k)
 - CM point adjustment for implementation of BCR RPP-12-020, "Core Sampling Platform - Transfer and Deferral," which deferred and replanned BCWS for the platform readiness activities consistent with the need to perform core sampling activities in FY 2013 (\$89k).



- **WTP Pre-Treatment Alternative Studies, (\$55k),** CM (CV) from self-performing WTP technology development baseline studies, reducing subcontractor cost with less than expected labor.

Acquisition of New Facilities

M-090-11, Complete the Negotiation of No More Than Two Canister Storage Facility Construction Interim Milestones, Due: 12/31/12, Status: On Schedule. Negotiations are not yet underway.

M-090-00, Acquire/modify facilities for storage of IHLW, Due: 12/31/2019, Status: On Schedule

M-047-06, Complete negotiation of no more than two interim milestones governing work necessary to support completion of M-047-00, Due: 06/30/12, Status: Negotiations are not yet underway.

M-047-00, Complete Work Necessary to provide facilities for management of secondary waste from the WTP, Due: 12/31/2022, Status: On Schedule

Significant Past Accomplishments:

Conceptual Design activities continue on the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.

The Secondary Liquid Waste Treatment Project conducted a two-day Alternatives Analysis workshop the week of December 5, 2011 to evaluate four different waste package sizes and corresponding waste mixing equipment and package handling alternatives associated with the different waste package sizes. The workshop resulted in the selection of a ¼ height ISO container as the preferred waste package size that will be further developed during Conceptual Design.

Significant Planned Actions in the Next Six Months:

- Continue Conceptual Design for both the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.
- Issue the Value Engineering Reports for the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.
- Issue the Safety Design Strategy and Process Hazard Analysis Report for the Interim Hanford Storage Project.
- Issue Environmental & Communication Plans for both the Interim Hanford Storage and Secondary Liquid Waste Treatment Projects.
- Complete the Conceptual Safety Design Report for the Interim Hanford Storage project.
- Complete Conceptual Design for both the Interim Hanford Storage and Secondary Waste Treatment Projects.

Issues:

None

Supplemental Treatment and Part B Permit Applications

M-062-40ZZ, Submit a one-time Tank Waste Supplemental Treatment Technologies report if a supplemental treatment technology is proposed other than a 2nd LAW, Due: 10/31/2014, Status: On Schedule.

M-062-45ZZ, Negotiate a one-time supplemental treatment selection, Due: 4/30/2015, Status: On schedule. Negotiations are not yet underway.

M-062-45ZZ-A, Convert M-062-31-T01 through M-062-34-T01 to Interim Milestones, Due: 4/30/2015, Status: On Schedule.

M-062-31-T01, Complete final design and submit RCRA Part B permit mod request, Due: 4/30/2016, Status: On schedule

M-062-32-T01, Start construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2018, Status: On schedule

M-062-33-T01, Complete construction of supplemental vitrification treatment facility and/or WTP enhancements, Due: 4/30/2021, Status: On schedule

M-062-45XX, No later than 12/31/2021, the DOE and Ecology shall complete negotiations to establish a mechanism that will apply to resolve future disputes regarding the determinations in M-062-45, paragraphs 4 and 5, due: 12/31/2021, Status: On Schedule

M-062-34-T01, Complete hot commissioning of supplemental vitrification treatment facility and/or WTP enhancements, Due: 12/30/2022, Status: On schedule

M-062-21, Annually, submit data that demonstrates operation of the WTP, Due: 2/28/2023, Status: On Schedule

M-062-00, Complete Pretreatment Processing and Vitrification of HLW and LAW Tank Wastes, Due: 12/31/2047, Status: On Schedule

Significant Past Accomplishments:

None

Significant Planned Actions in the Next Six Months:

None

Issues:

None

System Plan

M-062-40B, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2011, Status: Completed 10/24/2011 via DOE-ORP/ECY joint signature letter 11-TPD-087.

M-062-40C, Select a minimum of three scenarios that will be analyzed in the system plan, Due: 10/31/2013, Status: On Schedule

M-062-40D, Submit a system plan describing the disposition of all tank waste managed by ORP, Due: 10/31/2014, Status: On Schedule

M-062-45-T01, Every six years, within six-months after last revision of the System Plan, negotiate tank waste retrieval sequencing, Due: 4/30/2015, Status: On Schedule

Significant Past Accomplishments:

DOE/ORP submitted the River Protection Project System Plan, Revision 6, with a joint Ecology signature to EPA on October 24, 2011.

Significant Planned Actions in the Next Six Months:

None

Issues:

None

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
M-062-01X	Submit Semi-Annual TPA Project Compliance Report	01/31/2012	On Schedule

The WTP Project currently employs about 3,613 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 961 craft, 513 non-manual, and about 194 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of November 2011, the project was 62 percent complete, design and engineering was 84 percent complete, procurement was 66 percent complete, construction was 59 percent complete, and startup and commissioning was 14 percent complete.

The overall WTP Project schedule variance in November was a positive \$23.6M; the cost variance was a negative \$26.1M. The cost variance was due to Engineering Design, Construction Crafts, Plant Equipment, and Construction Subcontracts; and the schedule variances primarily were related to Plant Equipment and Plant Material.

Following is the status through the end of November for current project issues.

Significant Past Accomplishments:

- Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started for PT.
- Completed facility concrete design and design of 35 Hot Cell Jumper Frames in PT.
- Completed 83% of the concrete in the HLW facility with 58ft elevation walls continuing.
- Substantially completed mechanical systems design for the LAW facility.
- Receipt of the ammonia storage vessels at the construction site for BOF

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th-tier structural steel in PT (77ft to 98ft elevation).
- Perform Large Scale Integrated Testing in 4ft and 8ft vessels to resolve PT mixing issues.
- Set in-place two piping modules (PA07 upper, PA01 lower) in the PT black cells.
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8).
- Complete installation of LAW melter power supplies
- Complete installation of the LAW autosampler (ASX system).
- Complete installation of the LAB autosampler System.
- Complete construction of the BOF cooling tower.
- Complete construction of BOF switchgear building.

Issues:

- PT Facility:
 - The reduction in the amount of funding for FY 2012 has caused a significant amount of work to be pushed out into the future. Trends and Baseline Change Proposals (BCP) are being processed to incorporate these changes

- PVP Aerosol testing at Parsons is taking longer than expected. Due to unforeseen complications during testing execution, full results of the testing effort may not be available until mid-February 2012. The impact of this schedule slip is not well defined at this time, due to simultaneous impacts of the FY 2012 funding reduction.
- No significant issues in HLW, LAW, LAB or BOF at this time.

PRETREATMENT (PT) FACILITY

The Pretreatment (PT) Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Through November 2011, the PT Facility is 51 percent complete overall, with engineering design 79 percent complete, procurement 49 percent complete, and construction 41 percent complete.

Significant Past Accomplishments:

On-going work includes installation of rebar for the placement of Control Building basemat and 98ft elevation slabs, fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, and sparge tubing in the hot cell, and structural steel at the 77ft elevation.

Completed facility concrete design and completed design of 35 Hot Cell Jumper Frames. Completed Informational testing for validation of the assumption that Newtonian fluid model bounds non-Newtonian fluids. Test results are being evaluated by BNI. Project Execution Plan for the Large Scale Integrated Testing program (LSIT) was updated. Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started at Parsons Facility in Pasco.

BNI is actively working to resolution of the issues raised by DOE regarding vessel material selection. Draft report of the BNI evaluation is scheduled to be available to DOE in January 2012.

Completed as-built measurements of on-site Waste Feed Receipt Process (FRP) vessels, in preparation of the modifications resulted from the changes in the seismic criteria and chemical processes. Successfully completed Verification and Validation (V&V) of Quantitative Risk Analysis (QRA) for Hydrogen in Piping and Ancillary Vessels (HPAV). Completed HAZOP's for the HLW Lag Storage and Feed Blending Process (HLP) and the FRP systems.

PT critical paths primarily flows through the vessel Lag Storage and Feed Blending Process (HLP)-22 installations. The next critical path flows through CXP vessel alterations, followed by the hot cell vertical pumps, integrated pump frames, and rigid electrical jumpers. The tertiary critical path flows through installation of HVAC PVV fans and blowers, followed by completion of the Filter Cave. BNI is updating their plans for the FY 2012 activities based on the reduced funding plan that impacts PT facility. The re-plan (BCP 06-05858) is targeted to be completed by the end of January 2012.

Significant Planned Actions in the Next Six Months:

- Complete aerosol testing to determine entrainment coefficient for the PVV system
- Obtain Ecology approval of the permit packages to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C
- Set in-place 2 piping modules (PA07 upper, PA01 lower) in the black cells
- Complete removal of the vessel CXP-001 from the black cell in accordance with the modified CXP system design
- Set Hot Cell Vertical door drive mechanism replacement gearbox and switch
- Complete fabrication of Lag Storage and Feed Blending Process (HLP) vessels-27A/B

- Perform LSIT in 4ft and 8ft vessels for resolving mixing issues
- Complete placements for the Control Building basemat, and make initial 98ft elevation slab placements
- Complete remaining mechanical systems re-committed design packages
- Continue erection of 4th tier structural steel (77ft to 98ft elevation)
- Complete resolution of the material selection issues with the vessels

Issues:

- The reduction in the amount of funding for FY 2012 has caused a significant amount of work to be pushed out into the future. Trends and Baseline Change Proposals (BCP) are being processed to incorporate these changes
- PVP Aerosol testing at Parsons is taking longer than expected. Due to unforeseen complications during testing execution, full results of the testing effort may not be available until mid-February 2012. The impact of this schedule slip is not well defined at this time, due to simultaneous impacts of the FY 2012 funding reduction.

HIGH-LEVEL WASTE (HLW) FACILITY

The High Level Waste (HLW) Facility will receive the separated high-level waste from the Pretreatment (PT) Facility. The concentrate is blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 57 percent complete overall, with engineering design 86 percent complete, procurement 72 percent complete, and construction 38 percent complete.

Significant Past Accomplishments:

Following re-sequencing of the slab over the Filter Cave and the associated walls, the critical path has shifted to Melter Cell #2 build out. This will increase installation unit rates for commodities in the Filter Cave as it extends the use of overhead cranes for setting steel. The near term critical path activities now include two Melter Cave walls, installation of 4 wall modules, and steel liner plate and insulation on the floor. The submerged bed scrubber and High Efficiency Mist Elimination vessels are the major procurements associated with the build out. Current scheduled set date is May 2013. The vessels are in production and 50% and 60% complete respectfully with the last to deliver in January of 2013.

The remaining four of the 32 Dampers have arrived on site, closing a multinational coordination effort to design, fab, and construct dampers for the C5 Ventilation, Melter Offgas, and Pulse Jet Offgas systems. Electrical and piping commodities are progressing throughout the -21ft, 0ft and 14ft elevation, including cooling water, cable trays and supports, and fire protection piping. Sub-Contractors are also continuing with applying special coatings, installing Heating, Ventilation, and Air Conditioning (HVAC), fire protection piping, and liner plate installations. 83% of the concrete has been poured in the facility with 58ft elevation walls continuing.

Significant Planned Actions in the Next Six Months:

- C5V Housing and Remote-Operated Damper Installations
- Receive Plant Wash and Drains Vessel (RLD-VSL-8)
- Receive Primary Offgas Vessel HEME Vessel
- Stage Rinse Bogie with Rinse Vessel in Canister Rinse Tunnel

Issues:

No significant issues at this time.

LOW-ACTIVITY WASTE (LAW) FACILITY

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 67 percent complete, with engineering design 88 percent complete, procurement 85 percent complete, and construction 67 percent complete.

Significant Past Accomplishments:

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, several instrument data sheets were issued for the LAW Melter Process (LMP) system. Several architectural floor plans and finishing schedules were issued. A committed calculation was issued - *Fatigue Assessment for the LAW Thermal Catalytic Oxidizer (TCO)* for the LAW Secondary Off-gas/Vessel Vent Process (LVP) system. This month BNI Engineering also issued an engineering specification - *Engineering Specification for Exhausters and Hoses*. Piping isometric drawings were issued for the LMP and LVP systems. Piping and Instrumentation Diagrams (P&IDs) were issued for the Low Pressure Steam (LPS), Secondary Off-gas/Vessel Vent Process (LVP), Instrument Service Air (ISA), and Concentrate Receipt Process (LCP) systems. Pipe support drawings were issued for the Chilled Water (CHW) and Radioactive Liquid Waste Disposal (RLD) systems.

Procurement activities for the LAW facility are currently focused on the LVP system components. Engineering review of vendor calculations and vendor interactions continued as a major emphasis during the ongoing procurement of the LVP system components. Those BNI/vendor interactions progressed well through the month. The contract was awarded for High-Efficiency Particulate Air (HEPA) pre-heaters. Many process monitoring instruments were received during the month including Flow Transmitters (FT), Pressure Differential Transmitters (PDT), and Temperature Transmitters (TT) for the C2V ventilation system; PTs for the Autosampling (ASX), High-Pressure Steam (HPS), ISA, Plant Service Air (PSA), and RLD systems; and PDTs for the C3V and C5V systems.

The primary areas of construction focus continued to be facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. For example, installation of the decontamination manipulators and south finishing line dual-rail hoist for the LFH system continued. Other on-going construction activities during December included installation of the pour cave monorail hoists for the Container Pour Handling (LPH) system, Medium-Voltage Electrical (MVE) transformers, and Low-Voltage Electrical (LVE) equipment.

Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Container Finishing Handling (LFH)
- Auto Sampling (ASX)
- Secondary Off-gas/Vessel Vent Process (LVP)

Significant Planned Actions in the Next Six Months:

- Complete installation of melter power supplies
- Complete installation of auto sampling (ASX) system
- Receive Exhausters for LVP system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system

Issues:

No major issues at this time

ANALYTICAL LABORATORY

The Analytical Laboratory (LAB) will support the Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 50 percent complete overall, with engineering design 79 percent complete, procurement 75 percent complete, and construction 73 percent complete.

Significant Past Accomplishments:

As construction marches forward towards the substantially complete milestone numerous key procurements have arrived to keep the construction team on schedule. One example of these procurements included several key control valves for the autosampling system. The primary focus still remains on the installation of partition walls and the build out of radiological labs.

The LBL engineering team continues to tackle design changes as needed, and the team is currently engaged in Heating, Ventilation, and Air Conditioning (HVAC) work to accommodate additional heat loads not originally anticipated.

As the facility continues to take shape, procedural and method development is progressing. The LAB team provided comments for consolidation on the Tank Mixing-Sampling Demonstration Plan, which provides a discussion of how the Waste Acceptance Criteria (WAC) sample is to be taken.

Significant Planned Actions in the Next Six Months:

- Install Autosampler HEPA filter housings frames
- Complete installation of Autosampler System
- Install can crusher
- Set pumps in C5 pit
- Install Hot Cell import/export motors

Issues:

No major issues.

BALANCE OF FACILITIES (BOF)

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 47 percent complete overall, with engineering design 69 percent complete, procurement 47 percent complete, and construction 63 percent complete.

Significant Past Accomplishments:

The Defense Nuclear Facility Safety Board (DNFSB) was on site for several days to complete a review of the WTP electrical design with added focus on the Emergency Turbine Generator (ETG). Fortunately, On Power and Rolls Royce were here for a separate set of meetings, and several of their technical experts were able to attend the DNFSB meeting, and answer several of the technical questions asked by the board.

The receipt of the ammonia storage vessels at the construction site marked a major accomplishment for the BNI engineering and procurement team.

Significant efforts continued to be applied in preparation for the turnover of B87 and B91 this year. Additional walk-downs of the building were performed to evaluate any potential safety concerns, and hazards analysis meetings are beginning to ensure all documentation is updated and in alignment for the facility turnover.

An area of current concern is the impacts of high energy sources, such as a failure of a compressed air storage tank, on safety significant equipment. Engineering has completed the calculations, determined potentially affected equipment, and mitigating strategies are currently being developed.

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower
- Complete construction of BOF switchgear building
- Install structural steel for anhydrous ammonia facility
- Receive anhydrous ammonia system

Issues:

No major issues.

Through November 2011

Source: WTP Contract Performance Report - Format 1, Data for November 2011

Note: Starting with the June 2009 report, facility construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete.

FINAL

Office of River Protection
Consent Decree 08-5085-FVS

Project Summary Report

January 2012

Office of River Protection

Consent Decree 08-5085-FVS

Project Summary Report

January 2012

Page	Topic	Leads
1	Statistics / Status	James Lynch / Dan McDonald / Jeff Lyon
3	SST Retrieval and Closure – D-00B-01, -02, -03, -04	Chris Kemp / Jeff Lyon
5	Tank Waste Retrieval Work Plan (TWRWP) Status – Consent Decree Appendix C	Chris Kemp / Jeff Lyon
6	WTP - Immobilization Plant Project – D-00A-06, D-00A-17, D-00A-01	Delmar Noyes / Dan McDonald
8	WTP Pretreatment (PT) Facility – D-00A-18, -19, -13, -14, -15, 16	Wahed Abdul / Dan McDonald
11	High-Level Waste (HLW) Facility – D-00A-20, -21, 02, 03	Gary Olsen / Dan McDonald
13	Low-Activity Waste (LAW) Facility – D-00A-07, -08, -09	Jeff Bruggeman / Dan McDonald
16	Analytical Laboratory (LAB) – D-00A-005	Jason Young / Dan McDonald
18	Balance of Facilities (BOF) – D-00A-12	Jason Young / Dan McDonald

Milestone	Title	Due Date	Completion Date	Status
Fiscal Year 2012				
D-00C-02L	Submit to Ecology and Oregon Monthly Summary Reports	10/31/11	10/25/11	Completed
D-00C-02M	Submit to Ecology and Oregon Monthly Summary Reports	11/30/11	11/21/11	Completed
D-00C-02N	Submit to Ecology and Oregon Monthly Summary Reports	12/31/11	12/27/11	Completed
D-00C-02O	Submit to Ecology and Oregon Monthly Summary Reports	01/31/12		On Schedule
**D-00C-02P	Submit to Ecology and Oregon Monthly Summary Reports	02/28/12		On Schedule
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00C-01D	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	01/31/12		On Schedule
D-00C-01E	Submit to Ecology and Oregon Semi-Annual Report Documenting Progress During Previous 6 Month Period	07/31/12		On Schedule
Fiscal Year 2013				
D-00C-02X	Submit to Ecology & State of Oregon Monthly Summary Report	10/31/2012		On Schedule
**D-00C-02Y	Submit to Ecology & State of Oregon Monthly Summary Report	11/30/2012		On Schedule
** Future Monthly Reports will be added as necessary to maintain a two-months ahead activity.				
D-00A-05	LAB Construction Substantially Complete	12/31/2012		On Schedule
D-00A-12	Steam Plant Construction Complete	12/31/2012		On Schedule
D-00A-21	Complete Construction of Structural Steel to EL. 37' in HLW Fac.	12/31/2012		On Schedule
D-00C-01F	Submit to Ecology & State of Oregon Semi-Annual Report	1/31/2013		On Schedule
D-00C-01G	Submit to Ecology & State of Oregon Semi-Annual Report	7/31/2013		On Schedule
D-006-00-A1	Provide State of Oregon Notice of Meetings	9/25/2013		On Schedule

Reports

D-00C-01 series, Submit to Ecology & State of Oregon Semi-Annual Report, Due: Semi-Annually – January 31st and July 31st of each year. Status: On Schedule

D-00C-02 series, Submit to Ecology & State of Oregon Monthly Summary Report Documenting Progress During Previous Month, Due: End of Each Month, Status: On Schedule

D-006-00-A1, Provide State of Oregon notice of meetings in D-006-00-A, etc. no less than 30 days before they are scheduled, Due: 9/25/2013, Status: On Schedule

D-006-00-A, Meet Approximately Every Three Years After Entry of Decree to review requirements of the Consent Decree, Due: 10/25/2013, Status: On Schedule

SST Retrieval and Closure Program

D-00B-01, Complete Retrieval of Tank Wastes from 10 Remaining SSTs in WMA-C, Due: 9/30/2014, Status: On Schedule

D-00B-01A thru J, Submit Tank Retrieval Complete Certification, Due: TBD

Pursuant to the requirement at IV(B)(5) of the Consent Decree (CD) DOE must submit to Ecology a written certification that DOE has completed retrieval of a tank in accordance with the requirements of Appendix "C", Part 1, of the CD. Tanks currently in retrieval status are C-107, C-108, C-109, C-110, C-104, and C-111.

D-00B-02, Advise Ecology of the 9 SST's from which Waste Will Be Retrieved by 2022, Due: 9/30/2014, Status: Complete. ORP and Ecology began meeting in December 2010 to discuss the selection of the next nine tanks to be retrieved and why ORP believes those nine tanks should be in A/AX Farms. The last meeting was held on August 24, 2011. At this meeting, Ecology provided ORP with the guidance that Ecology believes the requirements of Project B-2 of the Consent Decree have been met.

D-00B-03, Initiate Startup Retrieval in At Least 5 of 9 SSTs in D-00B-02, Due: 12/31/2017, Status: On Schedule

D-00B-04, Complete Retrieval of Tank Wastes from the 9 SSTs in D-00B-02, Due: 9/30/2022, Status: On Schedule

D-00B-04A thru I, Submit Tank Retrieval Complete Certification, Due: TBD

Significant Past Accomplishments:

1. Continued Hard Heel Removal activities by performing water recirculation in C-108.
2. Continued design and procurement for C-109 Hard Heel Removal equipment.
3. Initiated AN-103 pump replacement.
4. Declared readiness for C-112 retrieval
5. Continued design and procurement for C-101 & 102 bulk retrieval systems.

Significant Planned Activities in the Next Six Months:

1. Complete the installation of the C-101 ventilation system and removal of legacy equipment.
2. Complete the installation of the C-102 ventilation system and removal of legacy equipment.
3. Complete C-101 design development for installation of Modified Sluicing System.
4. Complete C-102 design development for installation of Modified Sluicing System.
5. Complete the installation of the C-105 ventilation system and removal of equipment.
6. Complete C-107 bulk retrieval.
7. Complete hard heel retrieval of C-108.
8. Start up of C-112 Modified Sluicing Retrieval System.

9. Complete C-112 bulk retrieval.
10. Commence discussions with Ecology on the retrieval certificate of completion
11. Complete installation of the AN-106 ventilation system.

Issues:

None.

Tank Waste Retrieval Work Plan (TWRWP) Status

Tank	TWRWP	Expected Revisions	Retrieval Technology	Second Technology	Third Technology
C-101	RPP-22520	Projected revision early fall	MRS (per 10/7/10 agreement, to be Modified Sluicing)	-	-
C-102	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-103	RPP-21895	Retrieval Completed			
C-104	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-105	RPP-22520	Projected revision early fall	MRS	-	-
C-106		Retrieval Completed			
C-107	RPP-22393	In Process	MARS-S	MARS-High Pressure	-
C-108	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-
C-109	RPP-21895	Following RPP-22393	Modified Sluicing	MS-ITV	-
C-110	RPP-33116	Following RPP-22393	Modified Sluicing	-	-
C-111	RPP-37739	Following RPP-22393	Modified Sluicing	-	-
C-112	RPP-22393	In Process	Modified Sluicing	Chemical Dissolution	-

Significant Accomplishments

None.

Significant Planned Activities in the Next 6 Months:

- ORP, Ecology, and WRPS met on 01/12/12 to discuss Ecology's informal comments on the C-101 TWRWP. Meetings to continue to finalize C-101 TWRWP.

Issues:

None.

WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP) PROJECT

Number	Title	Due Date	Status
D-00C-01D	Semi-Annual CD Report	01/31/2012	On schedule
D-00A-06	Complete Methods Validations	12/31/2017	On schedule
D-00A-17	Hot Start of Waste Treatment Plant	12/31/2019	On schedule
D-00A-01	Achieve Initial Plant Operations for WTP	12/31/2022	On schedule

The WTP Project currently employs about 3,613 Full-Time Equivalent (FTE) contractor (Bechtel National, Inc. [BNI]) and subcontractor personnel, including 961 craft, 513 non-manual, and about 194 subcontractor personnel FTEs working at the WTP construction site (all facilities). As of November 2011, the project was 62 percent complete, design and engineering was 84 percent complete, procurement was 66 percent complete, construction was 59 percent complete, and startup and commissioning was 14 percent complete.

The overall WTP Project schedule variance in November was a positive \$23.6M; the cost variance was a negative \$26.1M. The cost variance was due to Engineering Design, Construction Crafts, Plant Equipment, and Construction Subcontracts; and the schedule variances primarily were related to Plant Equipment and Plant Material.

Following is the status through the end of November for current project issues.

Significant Past Accomplishments:

- Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started for PT.
- Completed facility concrete design and design of 35 Hot Cell Jumper Frames in PT.
- Completed 83% of the concrete in the HLW facility with 58ft elevation walls continuing.
- Substantially completed mechanical systems design for the LAW facility.
- Receipt of the ammonia storage vessels at the construction site for BOF

Significant Planned Actions in the Next Six Months:

- Complete erection of 4th-tier structural steel in PT (77ft to 98ft elevation).
- Perform Large Scale Integrated Testing in 4ft and 8ft vessels to resolve PT mixing issues.
- Set in-place two piping modules (PA07 upper, PA01 lower) in the PT black cells.
- Receive Plant Wash and Drains vessel for HLW (RLD-VSL-8).
- Complete installation of LAW melter power supplies.
- Complete installation of the LAW autosampler (ASX system).
- Complete installation of the LAB autosampler System.
- Complete construction of the Balance of Facilities (BOF) cooling tower.
- Complete construction of BOF switchgear building.

Issues:

- PT Facility:

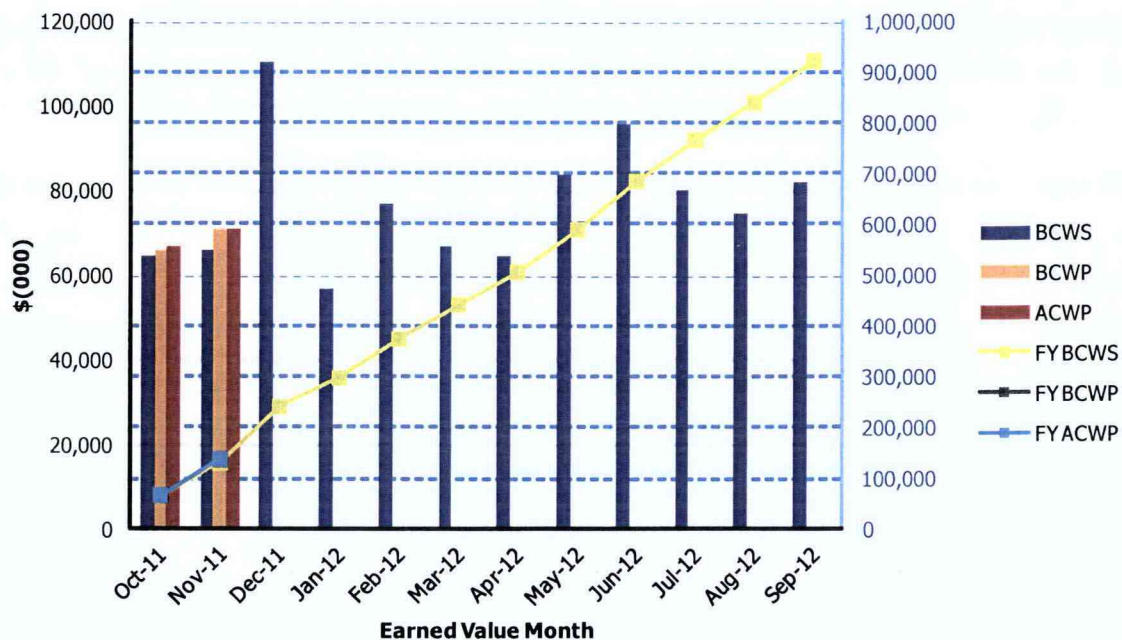
- The reduction in the amount of funding for FY 2012 has caused a significant amount of work to be pushed out into the future. Trends and Baseline Change Proposals (BCP) are being processed to incorporate these changes
- PVP Aerosol testing at Parsons is taking longer than expected. Due to unforeseen complications during testing execution, full results of the testing effort may not be available until mid-February 2012. The impact of this schedule slip is not well defined at this time, due to simultaneous impacts of the FY 2012 funding reduction.
- No significant issues in HLW, LAW, LAB or BOF at this time.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

River Protection
01-D-416 - Waste Treatment Plant (WTP) Project

Monthly EVMS Monthly and Fiscal Year Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$64,411	\$65,869	\$66,670	1.02	0.99	\$64,411	\$65,869	\$66,670	1.02	0.99
Nov 2011	\$65,647	\$70,625	\$70,879	1.08	1.00	\$130,058	\$136,494	\$137,549	1.05	0.99
Dec 2011	\$110,204			0.00		\$240,262			0.00	
Jan 2012	\$56,800			0.00		\$297,063			0.00	
Feb 2012	\$76,818			0.00		\$373,881			0.00	
Mar 2012	\$66,635			0.00		\$440,516			0.00	
Apr 2012	\$64,587			0.00		\$505,103			0.00	
May 2012	\$83,766			0.00		\$588,869			0.00	
Jun 2012	\$95,717			0.00		\$684,585			0.00	
Jul 2012	\$80,199			0.00		\$764,785			0.00	
Aug 2012	\$74,342			0.00		\$839,126			0.00	
Sep 2012	\$81,928			0.00		\$921,054			0.00	
PTD	\$6,593,806	\$6,617,448	\$6,643,575	1.00	1.00					

PRETREATMENT (PT) FACILITY

Number	Title	Due Date	Status
D-00A-19	Complete Elevation 98' Concrete Floor Slab in PT Facility	12/31/2014	On Schedule
D-00A-13	Complete Installation of Pretreatment Feed Separation Vessels	12/31/2015	On Schedule
D-00A-14	PT Facility Construction Substantially Complete	12/31/2017	On Schedule
D-00A-15	Start PT Facility Cold Commissioning	12/31/2018	On Schedule
D-00A-16	PT Facility Hot Commissioning Complete	12/31/2019	On Schedule

The Pretreatment (PT) Facility will separate radioactive tank waste into High Level Waste (HLW) and Low-Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Through November 2011, the PT Facility is 51 percent complete overall, with engineering design 79 percent complete, procurement 49 percent complete, and construction 41 percent complete.

Significant Past Accomplishments:

On-going work includes installation of rebar for the placement of Control Building basemat and 98ft elevation slabs, fabrication of piping modules, installation of drain piping, service air piping, cable trays and supports, ductwork, conduit, wall liner plates, and sparge tubing in the hot cell, and structural steel at the 77ft elevation.

Completed facility concrete design and completed design of 35 Hot Cell Jumper Frames. Completed Informational testing for validation of the assumption that Newtonian fluid model bounds non-Newtonian fluids. Test results are being evaluated by BNI. Project Execution Plan for the Large Scale Integrated Testing program (LSIT) was updated. Aerosol testing to determine realistic entrainment coefficient for the Process Vessel Vent Exhaust (PVV) system has been started at Parsons Facility in Pasco.

BNI is actively working to resolution of the issues raised by DOE regarding vessel material selection. Draft report of the BNI evaluation is scheduled to be available to DOE in January 2012.

Completed as-built measurements of on-site Waste Feed Receipt Process (FRP) vessels, in preparation of the modifications resulted from the changes in the seismic criteria and chemical processes. Successfully completed Verification and Validation (V&V) of Quantitative Risk Analysis (QRA) for Hydrogen in Piping and Ancillary Vessels (HPAV). Completed HAZOP's for the HLW Lag Storage and Feed Blending Process (HLP) and the FRP systems.

PT critical paths primarily flows through the vessel Lag Storage and Feed Blending Process (HLP)-22 installations. The next critical path flows through CXP vessel alterations, followed by the hot cell vertical pumps, integrated pump frames, and rigid electrical jumpers. The tertiary critical path flows through installation of HVAC PVV fans and blowers, followed by completion of the Filter Cave. BNI is updating their plans for the FY 2012 activities based on the reduced funding plan that impacts PT facility. The re-plan (BCP 06-05858) is targeted to be completed by the end of January 2012.

Significant Planned Actions in the Next Six Months:

- Complete aerosol testing to determine entrainment coefficient for the PVV system
- Obtain Ecology approval of the permit packages to proceed with the alteration of the on-site vessels FRP -2A/B/C/D and UFP-62A/B/C
- Set in-place 2 piping modules (PA07 upper, PA01 lower) in the black cells
- Complete removal of the vessel CXP-001 from the black cell in accordance with the modified CXP system design
- Set Hot Cell Vertical door drive mechanism replacement gearbox and switch
- Complete fabrication of Lag Storage and Feed Blending Process (HLP) vessels-27A/B
- Perform LSIT in 4ft and 8ft vessels for resolving mixing issues
- Complete placements for the Control Building basemat, and make initial 98ft elevation slab placements
- Complete remaining mechanical systems re-committed design packages
- Continue erection of 4th tier structural steel (77ft to 98ft elevation)
- Complete resolution of the material selection issues with the vessels

Issues:

- The reduction in the amount of funding for FY 2012 has caused a significant amount of work to be pushed out into the future. Trends and Baseline Change Proposals (BCP) are being processed to incorporate these changes.
- PVP Aerosol testing at Parsons is taking longer than expected. Due to unforeseen complications during testing execution, full results of the testing effort may not be available until mid-February 2012. The impact of this schedule slip is not well defined at this time, due to simultaneous impacts of the FY 2012 funding reduction.

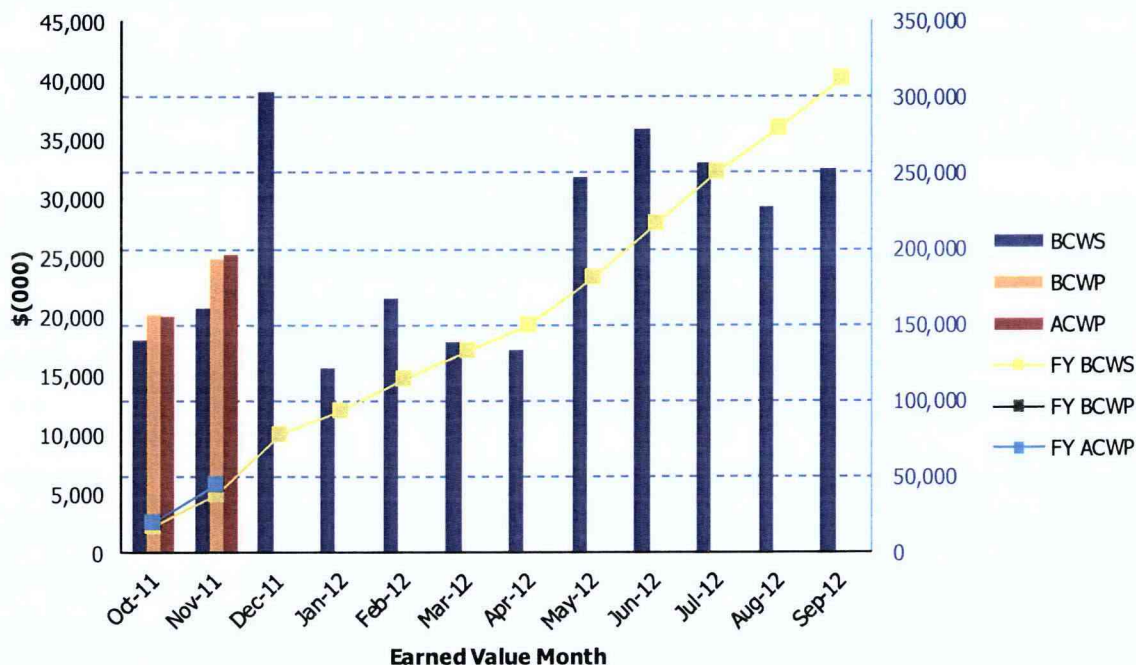
EXC-01a: Fiscal Year Cost and Schedule Report

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

River Protection 01-D-16E - Pretreatment Facility
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Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$17,935	\$20,110	\$20,000	1.12	1.01	\$17,935	\$20,110	\$20,000	1.12	1.01
Nov 2011	\$20,616	\$24,945	\$25,222	1.21	0.99	\$38,551	\$45,055	\$45,222	1.17	1.00
Dec 2011	\$38,978			0.00		\$77,529			0.00	
Jan 2012	\$15,622			0.00		\$93,150			0.00	
Feb 2012	\$21,466			0.00		\$114,617			0.00	
Mar 2012	\$17,804			0.00		\$132,421			0.00	
Apr 2012	\$17,121			0.00		\$149,542			0.00	
May 2012	\$31,749			0.00		\$181,291			0.00	
Jun 2012	\$35,807			0.00		\$217,098			0.00	
Jul 2012	\$32,977			0.00		\$250,075			0.00	
Aug 2012	\$29,294			0.00		\$279,369			0.00	
Sep 2012	\$32,525			0.00		\$311,895			0.00	

PTD \$1,281,725 \$1,294,552 \$1,265,837 1.01 1.02

HIGH-LEVEL WASTE (HLW) FACILITY

Number	Title	Due Date	Status
D-00A-21	Complete Construction of Structural Steel to 37' in HLW Facility	12/31/2012	On Schedule
D-00A-02	HLW Facility Construction Substantially Complete	12/31/2016	On Schedule
D-00A-03	Start HLW Facility Cold Commissioning	6/30/2018	On Schedule
D-00A-04	HLW Facility Hot Commissioning Complete	12/31/2019	On Schedule

The High Level Waste (HLW) Facility will receive the separated high-level waste from the Pretreatment (PT) Facility. The concentrate is blended with glass formers and converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters. After cooling, the canisters are sealed and decontaminated prior to shipment to interim storage. The HLW Facility is 57 percent complete overall, with engineering design 86 percent complete, procurement 72 percent complete, and construction 38 percent complete.

Significant Past Accomplishments:

Following re-sequencing of the slab over the Filter Cave and the associated walls, the critical path has shifted to Melter Cell #2 build out. This will increase installation unit rates for commodities in the Filter Cave as it extends the use of overhead cranes for setting steel. The near term critical path activities now include two Melter Cave walls, installation of 4 wall modules, and steel liner plate and insulation on the floor. The submerged bed scrubber and High Efficiency Mist Elimination vessels are the major procurements associated with the build out. Current scheduled set date is May 2013. The vessels are in production and 50% and 60% complete respectfully with the last to deliver in January of 2013.

The remaining four of the 32 Dampers have arrived on site, closing a multinational coordination effort to design, fab, and construct dampers for the C5 Ventilation, Melter Offgas, and Pulse Jet Offgas systems. Electrical and piping commodities are progressing throughout the -21ft, 0ft and 14ft elevation, including cooling water, cable trays and supports, and fire protection piping. Sub-Contractors are also continuing with applying special coatings, installing Heating, Ventilation, and Air Conditioning (HVAC), fire protection piping, and liner plate installations. 83% of the concrete has been poured in the facility with 58ft elevation walls continuing.

Significant Planned Actions in the Next Six Months:

- C5V Housing and Remote-Operated Damper Installations
- Receive Plant Wash and Drains Vessel (RLD-VSL-8)
- Receive Primary Offgas Vessel HEME Vessel
- Stage Rinse Bogie with Rinse Vessel in Canister Rinse Tunnel

Issues:

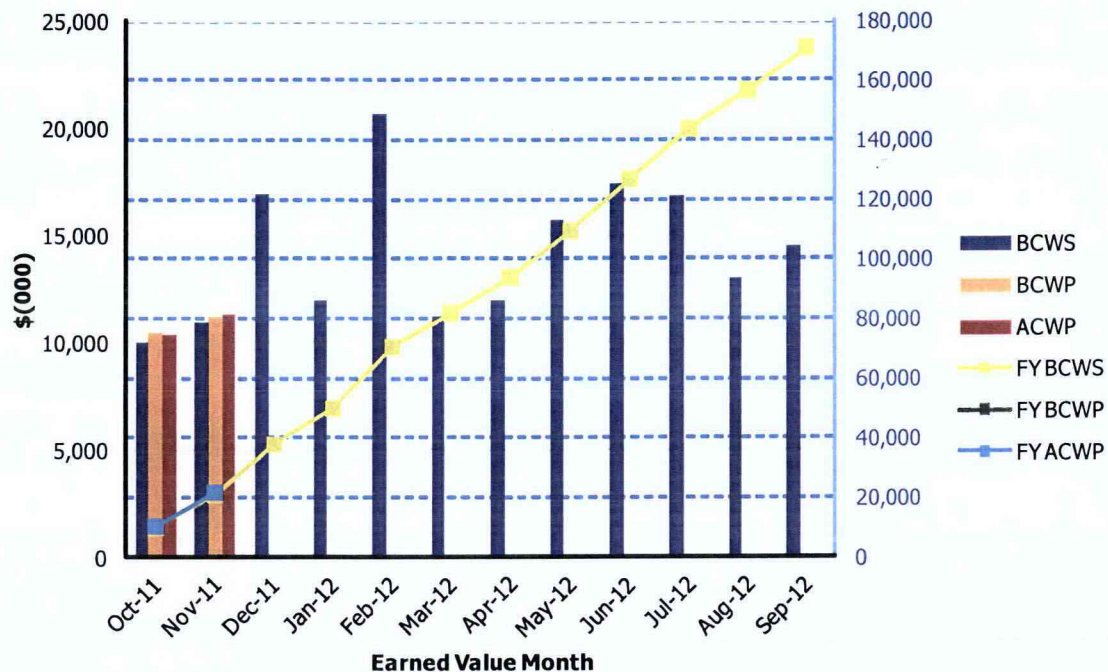
No significant issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

River Protection
01-D-16D - High-Level Waste Facility

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$9,953	\$10,437	\$10,368	1.05	1.01	\$9,953	\$10,437	\$10,368	1.05	1.01
Nov 2011	\$10,920	\$11,224	\$11,295	1.03	0.99	\$20,873	\$21,661	\$21,663	1.04	1.00
Dec 2011	\$16,931			0.00		\$37,804			0.00	
Jan 2012	\$11,984			0.00		\$49,787			0.00	
Feb 2012	\$20,661			0.00		\$70,449			0.00	
Mar 2012	\$11,228			0.00		\$81,676			0.00	
Apr 2012	\$12,000			0.00		\$93,676			0.00	
May 2012	\$15,677			0.00		\$109,353			0.00	
Jun 2012	\$17,388			0.00		\$126,741			0.00	
Jul 2012	\$16,812			0.00		\$143,553			0.00	
Aug 2012	\$12,944			0.00		\$156,497			0.00	
Sep 2012	\$14,486			0.00		\$170,982			0.00	
PTD	\$850,367	\$853,287	\$846,721	1.00	1.01					

LOW-ACTIVITY WASTE (LAW) FACILITY

Number	Title	Due Date	Status
D-00A-07	LAW Facility Construction Substantially Complete	12/31/2014	On schedule
D-00A-08	Start LAW Facility Cold Commissioning	12/31/2018	On schedule
D-00A-09	LAW Facility Hot Commissioning Complete	12/31/2019	On schedule

The Low-Activity Waste (LAW) Facility will vitrify LAW from the Pretreatment (PT) Facility. Waste will be mixed with glass formers, vitrified into glass at a design capacity of 30 metric tons per day, and placed in stainless steel containers that will be disposed on the Hanford Site in the Integrated Disposal Facility. The LAW Facility is 67 percent complete, with engineering design 88 percent complete, procurement 85 percent complete, and construction 67 percent complete.

Significant Past Accomplishments:

Electrical systems design continues in support of all equipment, controls, and lighting throughout the facility. For example, several instrument data sheets were issued for the LAW Melter Process (LMP) system. Several architectural floor plans and finishing schedules were issued. A committed calculation was issued - *Fatigue Assessment for the LAW Thermal Catalytic Oxidizer (TCO)* for the LAW Secondary Off-gas/Vessel Vent Process (LVP) system. This month BNI Engineering also issued an engineering specification - *Engineering Specification for Exhausters and Hoses*. Piping isometric drawings were issued for the LMP and LVP systems. Piping and Instrumentation Diagrams (P&IDs) were issued for the Low Pressure Steam (LPS), Secondary Off-gas/Vessel Vent Process (LVP), Instrument Service Air (ISA), and Concentrate Receipt Process (LCP) systems. Pipe support drawings were issued for the Chilled Water (CHW) and Radioactive Liquid Waste Disposal (RLD) systems.

Procurement activities for the LAW facility are currently focused on the LVP system components. Engineering review of vendor calculations and vendor interactions continued as a major emphasis during the ongoing procurement of the LVP system components. Those BNI/vendor interactions progressed well through the month. The contract was awarded for High-Efficiency Particulate Air (HEPA) pre-heaters. Many process monitoring instruments were received during the month including Flow Transmitters (FT), Pressure Differential Transmitters (PDT), and Temperature Transmitters (TT) for the C2V ventilation system; PTs for the Autosampling (ASX), High-Pressure Steam (HPS), ISA, Plant Service Air (PSA), and RLD systems; and PDTs for the C3V and C5V systems.

The primary areas of construction focus continued to be facility partition wall installation and equipment installation for the Container Finishing Handling (LFH) system. For example, installation of the decontamination manipulators and south finishing line dual-rail hoist for the LFH system continued. Other on-going construction activities during December included installation of the pour cave monorail hoists for the Container Pour Handling (LPH) system, Medium-Voltage Electrical (MVE) transformers, and Low-Voltage Electrical (LVE) equipment.

Integrated Control Network (ICN) development continued with software design and testing for the following systems:

- Melter Feed Process (LFP)
- Container Finishing Handling (LFH)
- Auto Sampling (ASX)
- Secondary Off-gas/Vessel Vent Process (LVP)

Significant Planned Actions in the Next Six Months:

- Complete installation of melter power supplies
- Complete installation of auto sampling (ASX) system
- Receive Exhausters for LVP system
- Receive HEPA Pre-heaters for LVP system
- Receive HEPA Housings for LVP system

Issues:

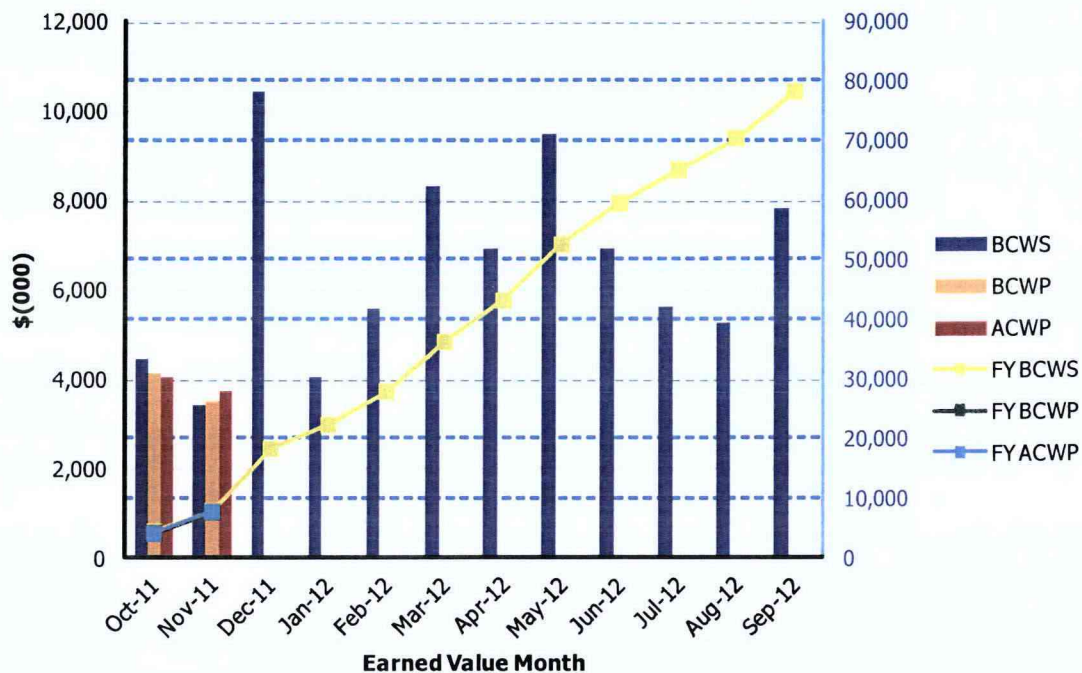
No major issues at this time.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

River Protection
01-D-16A - Low-Activity Waste Facility

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$4,415	\$4,115	\$4,014	0.93	1.03	\$4,415	\$4,115	\$4,014	0.93	1.03
Nov 2011	\$3,404	\$3,510	\$3,704	1.03	0.95	\$7,819	\$7,625	\$7,718	0.98	0.99
Dec 2011	\$10,430			0.00		\$18,249			0.00	
Jan 2012	\$4,017			0.00		\$22,266			0.00	
Feb 2012	\$5,573			0.00		\$27,839			0.00	
Mar 2012	\$8,317			0.00		\$36,155			0.00	
Apr 2012	\$6,920			0.00		\$43,076			0.00	
May 2012	\$9,462			0.00		\$52,538			0.00	
Jun 2012	\$6,892			0.00		\$59,430			0.00	
Jul 2012	\$5,606			0.00		\$65,037			0.00	
Aug 2012	\$5,257			0.00		\$70,294			0.00	
Sep 2012	\$7,821			0.00		\$78,115			0.00	
PTD	\$644,402	\$644,888	\$690,343	1.00	0.93					

ANALYTICAL LABORATORY

Number	Title	Due Date	Status
D-00A-05	LAB Construction Substantially Complete	12/31/2012	On Schedule

The Analytical Laboratory (LAB) will support the Hanford Tank Waste Treatment and Immobilization (WTP) operations by analyzing feed, vitrified waste, and effluent streams. The LAB is 50 percent complete overall, with engineering design 79 percent complete, procurement 75 percent complete, and construction 73 percent complete.

Significant Past Accomplishments:

As construction marches forward towards the substantially complete milestone numerous key procurements have arrived to keep the construction team on schedule. One example of these procurements included several key control valves for the autosampling system. The primary focus still remains on the installation of partition walls and the build out of radiological labs.

The LBL engineering team continues to tackle design changes as needed, and the team is currently engaged in Heating, Ventilation, and Air Conditioning (HVAC) work to accommodate additional heat loads not originally anticipated.

As the facility continues to take shape, procedural and method development is progressing. The LAB team provided comments for consolidation on the Tank Mixing-Sampling Demonstration Plan, which provides a discussion of how the Waste Acceptance Criteria (WAC) sample is to be taken.

Significant Planned Actions in the Next Six Months:

- Install Autosampler HEPA filter housings frames
- Complete installation of Autosampler System
- Install can crusher
- Set pumps in C5 pit
- Install Hot Cell import/export motors

Issues:

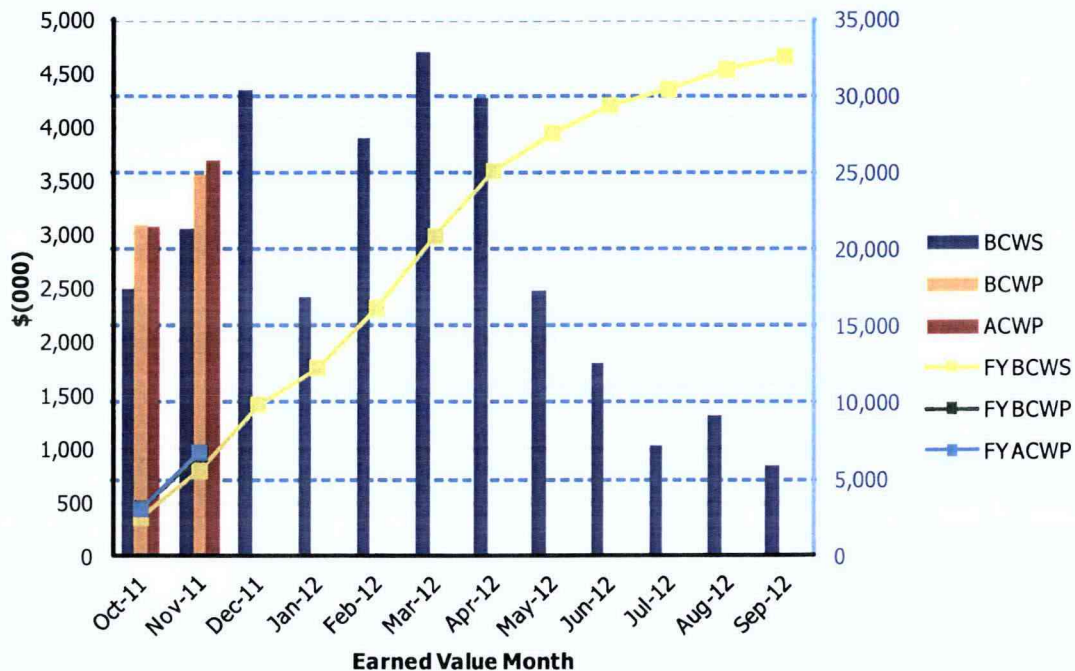
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

River Protection
01-D-16B - Analytical Laboratory

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,489	\$3,092	\$3,063	1.24	1.01	\$2,489	\$3,092	\$3,063	1.24	1.01
Nov 2011	\$3,040	\$3,551	\$3,680	1.17	0.96	\$5,529	\$6,643	\$6,743	1.20	0.99
Dec 2011	\$4,331			0.00		\$9,860			0.00	
Jan 2012	\$2,409			0.00		\$12,269			0.00	
Feb 2012	\$3,893			0.00		\$16,162			0.00	
Mar 2012	\$4,687			0.00		\$20,849			0.00	
Apr 2012	\$4,259			0.00		\$25,108			0.00	
May 2012	\$2,468			0.00		\$27,576			0.00	
Jun 2012	\$1,798			0.00		\$29,373			0.00	
Jul 2012	\$1,024			0.00		\$30,397			0.00	
Aug 2012	\$1,309			0.00		\$31,706			0.00	
Sep 2012	\$838			0.00		\$32,544			0.00	
PTD	\$175,330	\$175,112	\$187,512	1.00	0.93					

BALANCE OF FACILITIES (BOF)

Number	Title	Due Date	Status
D-00A-12	Steam Plant Construction Complete	12/31/2012	On Schedule

The Balance of Facilities (BOF) provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. The BOF is 47 percent complete overall, with engineering design 69 percent complete, procurement 47 percent complete, and construction 63 percent complete.

Significant Past Accomplishments:

The Defense Nuclear Facility Safety Board (DNFSB) was on site for several days to complete a review of the WTP electrical design with added focus on the Emergency Turbine Generator (ETG). Fortuitously, On Power and Rolls Royce were here for a separate set of meetings, and several of their technical experts were able to attend the DNFSB meeting, and answer several of the technical questions asked by the board.

The receipt of the ammonia storage vessels at the construction site marked a major accomplishment for the BNI engineering and procurement team.

Significant efforts continued to be applied in preparation for the turnover of B87 and B91 this year. Additional walk-downs of the building were performed to evaluate any potential safety concerns, and hazards analysis meetings are beginning to ensure all documentation is updated and in alignment for the facility turnover.

An area of current concern is the impacts of high energy sources, such as a failure of a compressed air storage tank, on safety significant equipment. Engineering has completed the calculations, determined potentially affected equipment, and mitigating strategies are currently being developed.

Significant Planned Actions in the Next Six Months:

- Complete construction of cooling tower
- Complete construction of BOF switchgear building
- Install structural steel for anhydrous ammonia facility
- Receive anhydrous ammonia system

Issues:

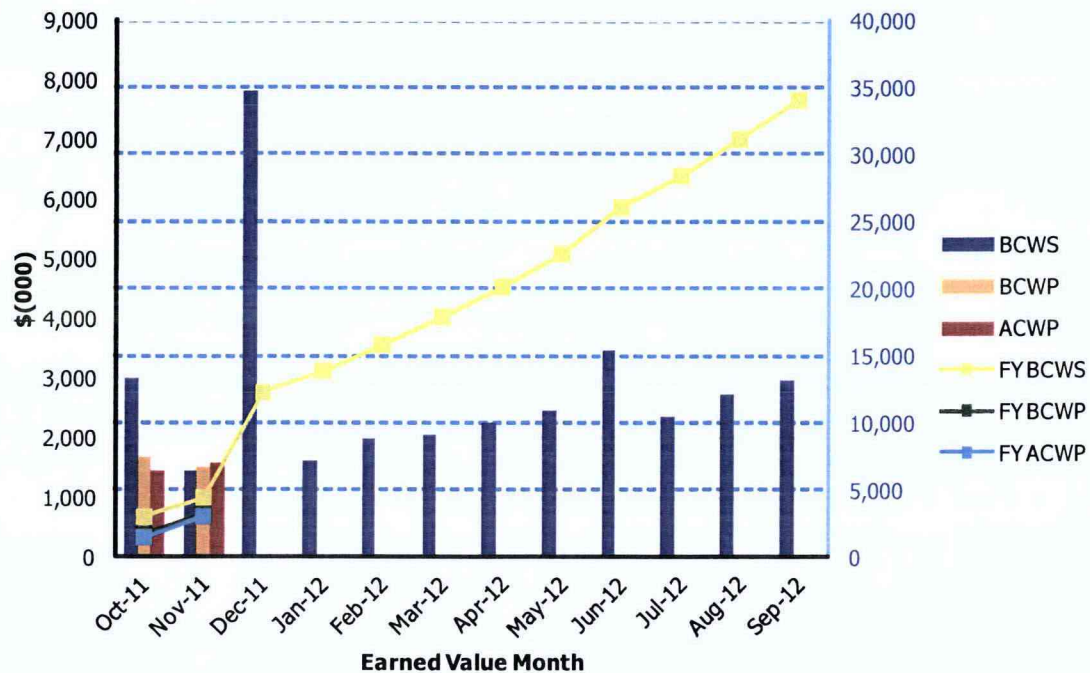
No major issues.

Data Set: FY 2011 Earned Value Data

Data as of: November 2011

River Protection
01-D-16C - Balance of Facilities

Facility Specific (unallocated) Monthly and Fiscal-Year-to-Date (FY-TD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	FY BCWS	FY BCWP	FY ACWP	FY SPI	FY CPI
Oct 2011	\$2,980	\$1,685	\$1,454	0.57	1.16	\$2,980	\$1,685	\$1,454	0.57	1.16
Nov 2011	\$1,455	\$1,524	\$1,564	1.05	0.97	\$4,435	\$3,209	\$3,018	0.72	1.06
Dec 2011	\$7,812			0.00		\$12,247			0.00	
Jan 2012	\$1,598			0.00		\$13,845			0.00	
Feb 2012	\$1,964			0.00		\$15,809			0.00	
Mar 2012	\$2,060			0.00		\$17,869			0.00	
Apr 2012	\$2,256			0.00		\$20,126			0.00	
May 2012	\$2,444			0.00		\$22,570			0.00	
Jun 2012	\$3,461			0.00		\$26,031			0.00	
Jul 2012	\$2,356			0.00		\$28,387			0.00	
Aug 2012	\$2,727			0.00		\$31,114			0.00	
Sep 2012	\$2,946			0.00		\$34,060			0.00	
PTD	\$258,277	\$255,321	\$252,075	0.99	1.01					

Through November 2011

Source: WTP Contract Performance Report - Format 1, Data for November 2011

Note: Starting with the June 2009 report, facility construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPCC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values. In July 2010 the allocation of 1.90 to the facilities was removed to show true facility percent complete.

WORKING ORP Key Documents List For January 2012

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 RCRA Facility Investigation/Corrective Measure Study Report for WMA C	Supports M-045-61	WMA C PA Ecological Risk Assessment Data Package, RPP-RPT-49425, Rev 0		04/19/11			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans Document was posted on the working group website with email notification on 04/19/11
	Supports M-045-61	WMA C Characterization Summary 2011		TBD			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans ORP met with ECY on 09/22/11 to provide status and setup meeting to discuss path forward.
	Supports M-045-61	WMA C Characterization Summary 2012		09/30/12			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
		WMA C PA Initial Model Run Data Package		06/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
		WMA C Characterization Summary 2013		09/30/13			B. Lober	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
		WMA C PA Initial Document		09/30/13			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input for M-045-61 and all Closure Plans
	M-045-61	Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C	12/31/14	12/31/14			B. Lober	S. Eberlein	J. Lyon	
Submit to Ecology for Review and Approval as an Agreement Primary Document, a Phase 2 Corrective Measures Implementation Work Plan for WMA C.	M-045-62	Phase 2 Corrective Measures Implementation Work Plan for WMA C	06/30/15	06/30/15			B. Lober	S. Eberlein	J. Lyon	
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system.	M-045-80	Description of Radioactive Waste Determination Process	01/31/11	12/28/10	06/30/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11. ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11. 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. 3rd ECY review extension letter 11-NWP-049 received by ORP on 06/02/11. ECY RCR received by ORP on 12/05/11 via letter 11-NWP-146.
	M-045-80 (S) ⁵	RCRA/CERCLA Integration White Paper	01/31/11	12/28/10	05/27/11	01/17/12	C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY review comment record (RCR) letter 11-NWP-051 received by ORP on 06/02/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11. In October 2011 PMM ECY/ORP agreed to extension to 12/05/11. ORP transmitted final responses 01/17/12 via 11-TF-151.

¹ "TPA Milestone Due Dates" are the direct regulatory drivers for completion of milestones.

² "ORP Delivery to Regulators Dates" are those dates that support future milestones, are submittal dates for permitting activities, or miscellaneous submittals that support ORP actions and represent the dates when ORP submits documents to the regulators. ORP Delivery to Regulators Dates may be earlier than TPA Milestone Due Dates if work is completed ahead of schedule.

³ The "Anticipated Regulatory Review Completion Date" is generated based on TPA Milestone Agreements and TPA Section 9.0 documentation requirements for primary documents. This date will be changed and noted in "Comments/Issues" if extension of review is requested. If the document is a secondary document or for information only, the "Anticipated Regulatory Review Completion Date" may be listed as "N/A" for not applicable.

⁴ "Final Completion Date" is entered after the document is reviewed, comments are incorporated, and any disputes are resolved. Any comment resolution issues or disputes will be noted under "Comments/Issues."

⁵ (S) = Secondary Document: Interim step in decision making; does not reflect key decisions. (P) = Primary Document: Key data and reflects decisions on how to proceed.

Bold red = DOE submittal within the next 90 days **Bold green = document is under ECY Regulatory Review** **Bold black = document under comment/review response or other actions** **Bold blue = document is completed**

**WORKING ORP Key Documents List
For January 2012**

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
Complete portions of the C-200 Closure Demonstration Plan necessary to complete closure plan development for the SST system (continued).	M-045-80 (S)	Tank Removal Engineering Study	01/31/11	12/28/10	05/30/11	11/07/11	C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY letter for review extension to 04/18/11 received by ORP 01/13/2011 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY RCR letter 11-NWP-047 received by ORP on 05/31/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11. RCR signed by ECY on 09/29/11 with all issues closed. ORP submitted response to final comments on 11/07/11 via letter 11-TPD-084.
	M-045-80 (S)	Evaluation of Alternatives for Removal of Waste from the C-301 Catch Tank	01/31/11	12/28/10	05/30/11	11/07/11	C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter, 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY comments letter 11-NWP-045 received by ORP on 05/27/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11. In October 2011 PMM ECY/ORP agreed to extension to 12/05/11. ORP submitted response to comments on 11/07/11 via letter 11-TPD-085.
Implement and Complete All Remaining Activities in the June 6, 2007 C-200 Closure Demonstration Plan (with any revisions as agreed to by Ecology and DOE).	Supports M-045-81 (S)	Pipeline Feasibility Study, RPP-RPT-45723		12/28/10	06/01/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input to M-045-81. Initial ORP letter 10-TPD-166 sent to ECY on 12/28/10 ECY review extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY RCR letter 11-NWP-052 received by ORP on 06/03/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 09/25/11. In October 2011 PMM ECY/ORP agreed to extension to 12/05/11. ORP requested extension to 01/31/11 to resolve comments.
	Supports M-045-81	Update C Closure Demonstration Plan		TBD			C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Feeds input to M-045-81 Awaiting language decision for LDR.
	M-045-81	Other Closure Demonstration Deliverables	09/30/14				C. Kemp	S. Eberlein	J. Lyon	
M-45-91 Interim Milestones and Target Dates for SSTs Implementing the Expert Panel's Recommendations (created via TPA Change Request CR M-45-10-01, approved on 01/03/2011)	M-045-91F-T01	Provide Report of the Liquid Leak Rate Assessments	01/31/12	01/31/12			J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> To be missed, change package drafted and submitted to ECY on 01/11/12.
	M-045-91G-T02	Provide AOR Final Doc. for SSTs on 750,000 Gallon Tanks	01/31/12	11/18/11		11/18/11	J. Johnson	R. Gregory	J. Lyon	<ul style="list-style-type: none"> Completed. Submitted to ECY on 11/18/11 via ORP completion letter 11-TPD-091.
	M-045-91G-T06	Provide Report of the Visual Inspection of 12 SSTs M-045-91G-T05	03/31/12	03/31/12			J. Johnson	R. Gregory	J. Lyon	

Bold red = DOE submittal within the next 90 days **Bold green = document is under ECY Regulatory Review** **Bold black = document under comment/review response or other actions** **Bold blue = document is completed**

WORKING ORP Key Documents List For January 2012

Milestone Title	Milestone Number	Document	TPA Milestone Due Date (if applicable) ¹	ORP Delivery to Regulators Date ²	Anticipated Regulatory Review Completion Date ³	Final Completion Date ⁴	DOE-ORP Lead	Contractor Lead	Ecology Lead	Comments/Issues
M-45-91 Interim Milestones and Target Dates (continued)	M-045-91G-T03	Provide AOR Final Doc. for SSTs on 1,000,000 Gallon Tanks	09/31/12	09/31/12			J. Johnson	R. Gregory	J. Lyon	• To be missed, change package drafted and submitted to ECY on 01/11/12.
	M-045-91D-T01	Provide Report on the Concrete Dome Samples from Tank C-107 Plug	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T03	Provide Report on Testing for Ionic Conductivity of SSTs	05/31/13	05/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T02	Provide Report of Liner Failures for SSTs	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F-T04	Provide Report on 100-Series SSTs as having Leaked in RPP-32681	07/31/13	07/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91E	Provide SST Farms Dome Deflection Surveys Every Two Years	09/30/13	09/30/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G-T04	Provide AOR Final Doc. for SSTs on 55,000 Gallon Tanks	10/31/13	10/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91F	Provide Summary Conclusions Report on Leak Integrity	12/31/13	12/31/13			J. Johnson	R. Gregory	J. Lyon	
	M-045-91G	Provide Summary Conclusions Report of AOR for SSTs	04/30/14	04/30/14			J. Johnson	R. Gregory	J. Lyon	
	M-045-91B-T01	Provide Ecology report on the Concrete Core from TankA-106 or alt	09/30/14	09/30/14			J. Johnson	R. Gregory	J. Lyon	
	M-045-91H	Submit Change Pckg (if necessary) to est. Additional Milestones	07/31/15	07/31/15			J. Johnson	R. Gregory	J. Lyon	
	M-045-91I	Provide IQRPE Certification of SSTs Structural Integrity	09/30/18	09/30/18			J. Johnson	R. Gregory	J. Lyon	
Prior to beginning construction and at least one year before construction is to be complete, DOE will submit to Ecology a final design and monitoring plan for each interim barrier.	M-045-92	Future Barrier Design 3	06/30/13	06/30/13			B. Lober	S. Eberlein	J. Lyon	
	M-045-92	Future Barrier Design 4	06/30/14	06/30/14			B. Lober	S. Eberlein	J. Lyon	
Submit to Ecology as an Agreement Primary Document a report on all Catch Tanks and associated pipelines that are identified in the SST System Part A, or otherwise used in operations.	M-045-101 (P)	SST System Component Identification and Proposed Closure Strategy (RPP-PLAN-41977)	12/27/10	12/28/10	05/30/11		C. Kemp	S. Eberlein	J. Lyon	<ul style="list-style-type: none"> Initial ORP letter 10-TPD-176 sent to ECY on 12/28/10 ECY letter for extension to 04/18/11 received by ORP on 02/11/11 ORP extension acknowledgement letter 11-TF-031 sent to ECY on 02/23/11 2nd ECY review extension letter 11-NWP-028 received by ORP on 04/20/11. ECY RCR letter 11-NWP-052 received by ORP on 06/02/11. ORP sent comment response extension letter 11-TF-067 on 06/16/11 to ECY to extend final response date to 08/31/11. In October 2011 PMM ECY/ORP agreed to extension to 12/05/11. Comments to RCR and redline provided to ECY on 11/14/11.
Waste Supplemental Treatment Report	M-062-40ZZ	Submit One Time Tank Waste Supplemental Treatment Tech. Report	10/31/14	10/31/14			S. Pfaff	C. Burrows	D. McDonald	
Technology Selection Report	M-062-45-ZZ	Technologies Selection Report	04/30/15	04/30/15			S. Pfaff	C. Burrows	D. McDonald	
Complete final design and submit RCRA Part B Permit Modification Request	M-062-31-T01	RCRA Part B Permit Modification--Final Design	04/30/16	04/30/16			S. Pfaff		D. McDonald	

Bold red = DOE submittal within the next 90 days **Bold green = document is under ECY Regulatory Review** **Bold black = document under comment/review response or other actions** **Bold blue = document is completed**

WORKING ORP Key Documents List **For January 2012**

Topic Areas	Document	ORP Delivery to Regulators Date ¹	Anticipated Regulatory Review Completion Date ²	Final Completion Date ³	DOE-ORP Lead	Contractor Lead	Regulator Lead	Comments/Issues
PERMIT DOCUMENTS	Tier 1 Framework Closure Plan Update	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	Tier 2 WMA C Closure Plan	06/30/13			C. Kemp	S. Eberlein	J. Lyon	
	All Remaining Closure Plans for WMA C	09/30/15			C. Kemp	S. Eberlein	J. Lyon	
	WMA C Closure Conceptual Design	TBD			C. Kemp	S. Eberlein	J. Lyon	
	Tier 3 Closure Plans for Tanks Already Received	TBD			C. Kemp	S. Eberlein	J. Lyon	• Due 120-day post EIS
	Tier 3 Closure Plans for Additional Tanks	TBD			C. Kemp	S. Eberlein	J. Lyon	• Several Dates in out years
	WMA C Closure Design	TBD			C. Kemp	S. Eberlein	J. Lyon	• Final dates not yet determined
	Supplemental Treatment Technology Notice of Construction	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Submit Part B Permit Application for Selected Supplemental Treatment Technology	09/30/13			L. Huffman	F. Miera	J. Lyon	
	Wiped Film Evaporator Notice of Construction	09/30/14			L. Huffman	F. Miera	J. Lyon	
	Submit Wiped Film Evaporator Class 3 Permit Modification or Part B Permit Application	09/30/14			L. Huffman	F. Miera	J. Lyon	
	IDF Performance Assessment (ORP/WRPS has support role to RL/CHPRC)	09/30/12			T. Fletcher	F. Miera	J. Lyon	
MISCELLANEOUS DOCUMENTS	Submit Categorical TOC HIA	TBD				F. Miera	J. Lyon	
	Quarterly Hose-In-Hose Transfer Lines (HIHTL) Reports	Ongoing Quarterly			J. Johnson		J. Lyon	<ul style="list-style-type: none"> Back-reports submitted via email to ECY, formal letter 11-TPD-024 transmitted back reports to ECY on 03/29/11 Meeting to evaluate extension of 2 HIHTL Reports held 05/25/11.
TWRPS DOCUMENTS	Please see ORP Monthly Consent Decree Report for Tank Waste Retrieval Work Plan Status Table, Accomplishments, and Issues.							

¹ Note: "ORP Delivery to Regulators Dates" are those dates that support future milestones, are submittal dates for permitting activities, or miscellaneous submittals that support ORP actions and represent the dates when ORP submits documents to the regulators.

² Note: The "Anticipated Regulatory Review Completion Date" is generated based on TPA Milestone Agreements and TPA Section 9.0 documentation requirements for primary documents. This date will be changed and noted in "Comments/Issues" if extension of review is requested. If the document is a secondary document or for information only, the "Anticipated Regulatory Review Completion Date" may be listed as "N/A" for not applicable.

³ Note: "Final Completion Date" is entered after the document is reviewed, comments are incorporated, and any disputes are resolved. Any comment resolution issues or disputes will be noted under "Comments/Issues."

ORP Project Managers Meeting
January 24, 2012
2440 Stevens Ctr.
Richland, Washington
Meeting Minutes Transmittal

Attachment D: Agenda Including Items Submitted to Administrative Record

(2 pages including this coversheet)

**ORP TPA Project Managers Monthly Meeting
Tuesday, January 24, 2012
2440 Stevens Center Richland, Washington
Room 1200, 9:00AM-12:00PM**

AGENDA

1.0 Administrative Items

- October 2011 PMM Minutes for signature

Recent Items Entered/To Be Entered into the TPA Administrative Record (see <http://www5.hanford.gov/arpir/?content=advancedSearch> - search EDMC File Number)

Item Description	TPA/CD Topic Milestone Tie	TPA Admin Record – EDMC File Number
Meeting Notes: Status of Fiscal Year 2011 Characterization for Potential Interim Barriers, held 11/08/11	M-045-92	0100251
Meeting Notes: M-45-92 Annual Barrier Monitoring Meeting, held 11/30/11	M-045-92F	0100549
ORP December 2011 CD Report	All	0100550
ORP December 2011 TPA Report	All	0100551
Meeting Summary: Meeting Summary for ORP and Washington State Department of Ecology December 2011 Tank Farms Informal Project Managers Meeting, held 12/20/11	SST Projects	0100658
ORP Letter 11-TF-151: Submittal of SST WMA C RCRA/CERCLA Integration White Paper, RPP-46459, Rev 3, dated 01/17/12	M-045-80, Task 2	0100923
Change Package M-45-12-01: Delay of Hanford Federal Facility Agreement and Consent Order (HFFACO) target dates M-045-91F-T01 and M-045-91G-T03, signed by ECY and ORP on 01/23/12	M-045-91F-T01 and M-045-91G-T03	In Process

2.0 Review of the ORP Project Summary

3.0 Agreements, Issues, Actions

4.0 Key Documents List

Upcoming Meetings

- The Dry-Run for the February ORP Quarterly Meeting is scheduled for Tuesday, February 14, 2012.
- The February ORP Quarterly Meeting is scheduled for Thursday, February 16, 2012.